# THE LAUNCH OF ORION TWO.



## Preface.

this story is set only 25 years in the future to make it feel close and because i would have no way to write dialog for a culture in our distant future. maybe a thousand years from now might be more realistic theory wise. and this possibility depends on many unknowns. this is more of a dream really. read my paper called NO HARD-SKY for the physics assumptions justifying this possibility. if the quantum field theory ideas in the paper mentioned above were by some luck to be sound, then maybe we will really do this and maybe only centuries from now. enjoy. and dream.

## CHAPTER ONE.

five years have passed since the Orion One disaster, the little sucker as they like to call it. there was no DownLift Command in those days to supervize and control access to near earth quantum field space whatever that is. no one of course fully accepted that anyone could go anywhere by decelerating. in classical physics decelerating always means slowing down. the consensus of the eggheads in government has led NASA to try again. nearly a trillion dollars went down that hole in the desert. the world is here in florida this afternoon to watch as they really shoot for the moon this time. since the day that asteroid got sucked into the ground where the orion one used to be, everybody puts hyphens in the word de - cel - er - ate. the debate still rages online even though the decision had already been made to try it in florida. so here we are awaiting what is promised to be the ultimate moonshot. these protesters will stop it if they can or so they boast. at least the concept proved itself the eggheads kept saying, or it wouldn't have sucked. the asteroid into the launch site that is. the lessons have been learned the mantra goes. so here we are again but on the east coast with sunny skies, to try again to boldly go. and they're not kidding when they say boldly.

the crowds extend seemingly out of site this sunny morning in florida for the impending slide of Orion Two. protesters block traffic to a crawl at most of the intersections near cape canaveral, and even on the nearby interstates. if you're not already here you ain't coming. at least twenty new words have entered the dictionaries of the world since the orion one sucked that asteroid down its own gravitational throat. Slide, NonThing, PhaseOver, HardSky, UpFall, SkyColumn, and the now very familiar oxymoron DownLift. and now this morning if all goes well, Orion Two will DownLift into the sky.

DownLift Command, Orion Two. crackling on the speakers brings the crowd to an attentive hush. there's not a dry eye on the planet this morning, the new walter chimes in from CNN. go ahead orion two. crackling, crackle. one reporter quips what, our new quantum NASA still can't buy better radios he laughs? of course he knows that radio noise is unavoidable with the

distortions emanating from orion's field manipulation tests before full startup. DownLift Command, Orion Two requesting clearance for Sky Column. the crowd explodes onto their feet if not already at attention. a brief scuffle is heard from a nearby group of protesters, but quickly settles down on its own. Downlift Command, orion one awaiting clearance for sky column. the crowds pan their eyes around the sky as if wondering who's holding up the show. standby orion, we're still waiting on civilian ATC and NORAD's "OK". walter two chimes in to fill the void in CNN's coverage, explaining the actual meaning to the audiences around the world, of the term, NORAD's OK. it means nothing actually they say. rumors still circulate in the conspiracy sites that the term means the military is authorized and ready on the trigger to destroy the spacecraft with a tactical nuclear weapon the moment they receive the signal. well, they have a method to contain it they say, if it goes nonlocal in a chaotic dis-PLACION, whatever that is, something less old fashioned they claim.

NASA's launch director offers the crew of orion a pre-count GOD-speed, since radio communications can't penetrate orion's shifting classical-reality-frame once the SkyColumn goes active. waves of cheer spread across the waiting crowds, and then a pensive silence. Orion Two, DownLift Command, clearance for SkyColumn is granted, you are go for Sky Column. after a long minute or so of nothing, a subtle hum is felt in the air and extends now even to the ground under our feet, as the now familiar orange mist, more of a glow actually, begins to swirl up into the sky above the spacecraft. not a cell phone or video camera within a hundred miles is in disuse at this moment. walter two chimes in to CNN airwaves to explain the process. as it builds the sky column of distended quantum fields, which they say actually relocates the spacecraft's quantum fields, extending them up into a column all the way to On-Orbit, and at the end of the 60 second count, it slides out of sight. it get's there in the fields before you see it slide. disbelief on this point of course still reigns supreme, even among those on board the non-thing. walter, what's going on during the 60 second count? they tell me the sixty seconds is a necessary pause to confirm whether or not the standing wave for the orbit is ready to receive the spacecraft safely. if the standing orbital wave has instabilities at the 49 second mark, the system attempts to re-focus the localization field back to the launch site, sucking it all back out of the distended SkyColumn, back to where the craft is classically, so it will hopefully stay there intact. but literally anything can happen.

stop calling it a thing, one of the announcers barks in with a smile. nothing is a thing anymore, remember? commander shawn thomas communicates to Downlift Command and NASA: sky column established. we're SittingPretty where we're not gonna be. another one of those cool new terms in the dictionary. they say SittingPretty is actually a technical term they really use to say they are nonLocal ready. yes you are O2, you have a 39 minute SkyColumn window. CNN's cameras pan the crowd, zooming in on a child tugging on her mother's blouse. then pans out a bit, and zooms back in to a reporter interviewing members of the crowd, one of whom asks the reporter, what are they waiting for? well, i don't pretend to understand this quantum nonlocality stuff, but as i think i understand, they're monitoring the SkyColumn for skyQinks of

quantum fields and for wave stability. i do love that kinky term. oh i see, you have no idea, do you? right you are.

Downlift Command, Orion Two, sky column kink-free and wave-stable, punching up in 60 seconds, mark. not a word was spoken by a human soul during that long minute count. and without even a swoosh, the thing radiated quietly up and out of site. orion one on standing orbit. everyone began breathing again, looking around and wondering, did it really happen, or was this just a light show?

## CHAPTER TWO.

everybody's watching scifi tonight, aren't they walter? i think we just did. and yes we sure are, he said, the journey has just begun. so walter, we all understand that the spacecraft will be playing around a bit in near earth orbit for the next few days, and maybe trying some PhaseOvers? what are phaseOvers anyway, and what's next? will they jaunt around the solar system too? well, that depends on the next few days. the big question right now is, is the system intact? can it handle more distensions of the fields, or is this a one use thing? nobody down here knows yet. phaseOvers are navigational, maneuvering use of the system. fields are gently distended left, right, up and down relatively, to slide into different orbitals. sounds easy, but no one is forgetting that hole in the ground out west. we're all just relieved it didn't repeat here in florida. surely most launches, or slides, in the future will happen in the desert. there is still the treaty negotiations regarding this stuff, to be completed in Oslo, hopefully next month. one thing we know for sure, there will never be another world war. we're in the solar system now. and its all or nothing for everyone.

of course we get ahead of ourselves, don't we? let's see what happens in the next few weeks. its all economics now. only that might hold us back. a trillion dollars, just to build one, is a tall order. the president comes on at eight tonight, addressing the whole world, with reassurances for sure, about our sincerity in sharing access to this technology. but what are the big issues that remain in the hearts of the average viewer tonight? well, you have the trekkies of course, we all know about their undaunted enthusiasm. and of course their numbers just went through the roof tonight, as they say now also about our real potential to extend human life into the solar system. but what about the plans, some say, to crack c, the barrier most relativists still say can't be breached? well, tune in tonight. are we expecting any surprizes tonight from the president, or will she hold it tight to the vest? well, she does have that tendency, but we all remember last year, when she blurted out this new orion thing like fireworks in 1999. and here we are up there in orbit right now, humming along nicely we hope. back to walter two at cape canaveral. walter, are you shaking in your shiny boots yet, in your role as the reincarnation of walter cronkite? shaking isn't the word, and i am no walter cronkite, but i appreciate the moniker everyone has bestowed on me. i don't deserve it of course. he was one of a kind. i'm just enjoying the ride here. now, let's talk about the ride upstairs, in orion two. well, for that, to no one's surprize, we have doctor T as they call him now, just about to enter our studio here at

the cape, hopefully with his Miss T, his wife tanya. she short cuts his babble enough so the rest of us can maybe get it. so let's turn it over to walter now, back at OUR cape studio.

## CHAPTER THREE.

yes that's right, it all belongs to all of us now, i understood your emphasis. and i think the president will get right onto those issues tonight, the social ones. as she promised, if the people would just get on board with this orion program, its benefits will finally reach the common man in a big way. so here we are ladies and gentlemen, please welcome doctor T to the studio, and guess what, he brought his wife to help him keep it simple, this quantum field stuff.

so, doctor T, how does it feel? well, i won't lie, it's a great relief. if this had failed today, we wouldn't likely get another try for a long time. i just want to thank you, and everyone out there, we're in this together now. so doctor, why did this work, in as simple words as you are able to boil it down to? well, we don't really know. no one does really, except to say, the universe is as strange as some of us have been trying to say for a long time. how, doctor T, how strange is it? please drop the doctor thing would you, call me T like my other T calls me, my sweet T tanya. or just teddy if you want, but not ted, i hate that. sorry, but she said to make it human tonight, and sometimes i just don't know how. so come on walter two, wipe that grin off your face, okay? so, why did this thing just slide up to orbit without making a sound, not even the sound of swooshing air or a sonic boom?

well, to keep it simple, we didn't actually "travel" there, in the classical sense. okay. how is quantum field propulsion different from rocket launches? well, let me see, we did it backwards, like the way nature actually does things most of the time, at least behind the scene. how do you mean, backwards, and behind the scene? well, we really are all just fields interacting. we're not these bodies, these rocks, these hard solid things. but we feel solid, we bump into things, how do you explain that? i can't really, without a lot of words and fancy numbers, nature arranges that for us. you mean she cares for us? well sure, of course she does, we're here aren't we? but you're a science guy, come on, give us a science answer. okay. matter is standing waves somehow held stable by fields. fields you say. what are they? you know, like magnetism or electricity. light. its the same mostly. but there is more, right? yes, matter, the stuff that seems hard and solid, is fields like magnetism too. but not just one field, many interacting. so how does this make it possible for the orion two spacecraft to downlift into orbit? and why do they call it downlifting? well, let tanya take that one for a minute while i drink this coffee and breathe. you're human too, aren't you doctor T? sure am, with all the flaws that come with it. so tanya, how did he do it? well? yes, i say well a lot too now. teddy tells me we push the fields, the quantum fields we're all actually made of, out ahead of us a bit, and the fields pull us forward. okay. so why does he say we decelerate to orbit. isn't that backwards? well yes it is, and that's the point. we're all created and sustained in our seemingly local existence, by nonlocal fields. we're not really in one place. really? not at all? well, not completely. you wanna take this teddy? sure. imagine for a minute, no that won't do it. i don't have the right understandable words at the moment. what do you say if we have a few human moments here,

while i make up an answer that makes sense without math or riddles? okay tanya, what is teddy trying to say? i think judging from his smile, he wants me to tell you all something personal about us. whats that? well, our son will is about to get a baby sister.

well congratulations to you two. and will too. what's will doing now while his parents are talking to us? i think he's watching us right now. and probably complaining that we wouldn't let him go up in the orion today. hehe. does he like star trek like his daddy used to? unfortunately. what, aren't you a trekkie yet? well, i don't want to admit it, but i watch it sometimes with will.

so walter, i think i have an answer almost ready to your question about why we call it downlifting into orbit. we push our quantum fields out ahead of us a bit, and they snap us back to where we are supposed to be. what do you mean supposed to be? you had to ask didn't you? this is a tuff room. well, there i go with those wells again. well, quantum physics is all about statistics. no, that won't help. plus its not quite true. here we go. we all perceive ourselves to be in a certain location. but in quantum theory, hold on. it's not a theory anymore is it? our astronauts are up there right now because it is no longer theoretical. in the quantum physics of the past hundred years, a particle, a solid thing, had statistical probabilities for where it actually is. but now we know that that is because it really isn't located anywhere, except in a general region of what we call space. it is waiting for observers' fields to interact with the fields of the spread out thing or things, to sort of request a specific location. we do this unconsciously for the most part. but now we have learned to make specific requests. sounds like praying to me. well, it sort of is, except we actually know how to ask, how to interact with those fields. okay. are you religious doctor, i'm sorry, T? who isn't, we are all mortal, aren't we? well, i suppose. yes, but do you believe in GOD? NO. no? why not? well, how should i say this without offending anyone, or getting laughed at by my colleagues? there's no doubt anymore. we don't need belief if we know for sure that a higher power exists. a higher power? well, by anyway you try to describe how the orion zipped to space today, it is magical, miraculous. the definition of the word. something whispy pulls matter along, without us needing to push it. yes, it is scientific, but this is not yesterday's science. and if you don't mind me throwing out a big one, and i hope the president doesn't mind me upstaging her speech tonight. uh, nevermind, that is up to her.

what's that you say? nevermind. oh, what the hell, but i'm gonna get my ass handed to me in the morning if not tonight. forgive me madam president, but i have already half opened my big mouth. so here goes nothing. walter, what year is it? pardon me? tell me, what year is it? 2042. okay. what span of years did captain kirk live through? oh i don't know, the twenty third century, wasn't it? yes. you're not saying? well actually, yes i am. when? next year, if we're ready by then. wait a minute, you're saying this thing is further along than you all have been saying? no not at all, it's just that other research has been running in parallel with the orion program, and well, we're gonna try to crack c next year. crack what? you can't be serious! dead serious. next year, 2043, if all continues as we hope. GOD, i'm in trouble, i wrecked her speech tonight.

# CHAPTER FOUR.

ladies and gentlemen, welcome to the CNN studios this evening. we have as you all know, a special guest on this auspicious evening, the president of the united states, miss stephanie plunkett. the president, for her own personal reasons, requested this informal setting for her communication with the world on this amazing exciting day.

so welcome everyone, come in and sit down. with me on my left is president plunkett with a member of her staff, and on my right is walter sitting in as a guest rather than his usual job. walter is joined by his wife linda. i have been requested by the president to explain the reason for breaching standard protocol. the president insisted. she insists we address her exclusively by her first name. so with no further ado stephanie, may we go a little further with this unusual name thing, and call you stef? you sure can, it's about time we all get on a first name basis. and that's really what i want to talk with you about tonight, with the american people and the world.

but i really don't want to give a speech tonight, and since i'm the president, i don't have to. the live audience breaks out in laughter at the president's remark. so president stef, one more question before we get this conversation going. are you a trekkie? i am now. aren't we all? i think we're getting there, the president chimed in, stop that president crap, or i'll give YOU my job. okay, stephanie, but this feels so wrong.

daniel, you're the moderator of this uncomfortable conversation, you think maybe you should start doing your job? gladly. ladies and gentlemen, and especially to the children all around the world, welcome. the childhood of the human race is now ending, yet now more than ever, we feel like we're only just leaving kindergarten. so here we are together on our small home, planet earth, beginning a never ending adventure of discovery, hope, and dreams realized, and yet challenges. the president has asked me to explain our format this evening, which for the most part, will be no format at all. but she has provided me with a short list of questions, to be sure we cover certain questions and issues of concern to us all. but for the next few minutes, i'll hold those questions while the panel here gets it all going, conversationally. so, walter?

Ms president, i just can't do it, the name thing, i am sorry. it's okay. Ms president, did you ever think in your wildest youthful dreams, you might not only become president, but actually be in office when the human space program actually goes all captain kirk? that's a good question, and thank you for asking it that way. and i first have to say, yes, doctor T was in fact saying to you all earlier today, and i am confirming, that the united states, along with our partners all around the world, will attempt for the first time, late next year, to exceed the speed of light. the studio, the audience, and indeed the whole world, just dropped their jaws in shock and amazement. the president has indeed actually just confirmed the unthinkable, on live television, that the cosmic speed limit called c, of light, is to be challenged next year.

how can that be, Ms president, it has long been known to be even theoretically impossible? well, i'll ask walter to speak to that. he's rather up to speed on this stuff, even the experts

agree. so walter? well, they think they can do it, quite confidently, i must say, in a smaller, robotic version of the orion spacecraft. but the how and why of it is tricky to explain. first of all, relativity, the einstein stuff, is still valid, but it seems nature is letting us in on a loophole, which apparently she left there for us to discover and use, responsibly.

what do you mean by responsibly? well, what happened five years ago. the fields they messed with to attempt this the first time, actually created enough gravity outside the front of the ship, to curve that asteroid right down to the launch pad and hit it right on the bull's eye, the orion one. then why was it achieved safely this time? focus. and preparation. the folks at DownLift Command scan space for any debris around earth, no matter how small, track it, and calculate windows for launch. civilian and military air traffic control, of course, clear the airspace entirely, everything within at least a thousand miles of cape canaveral. and one thing, the ship itself, its quantum field manipulator, was improved to give much better control, better focusing of the fields in the sky column. there's that word again, sky column. what exactly is it? well, its a narrowly focused corridor to space, where the ships quantum field generator, focuser actually, resonates the ship's own inherent quantum fields, pushing them up toward where they want the thing to go. okay. so they resonate the sky column after getting clearance from DLC, that it is safe to do so. why do they call it down lift, when they actually plan to go up. because they will be accelerating up by a backwards method. instead of pushing rocket exhaust out the back of a spacecraft, they push their quantum fields forward, and the fields pull the craft forward. why do the fields do that? well, i'm not a physicist, but as i understand it, nature has a probability field of some kind, and wants objects located perceptually, at the most statistically likely place for them to be, which is in the middle of the quantum fields which are the actual reality of any object. so how do you get nature to put the craft in orbit, or where you want it? well, its already in orbit before launch, but not with high probibility. very low actually. this is crazy. i know. put it this way. everything physical is actually spread out in space a bit. we spread the ship out more in quantum space, and then nature re-centers the localization of the ship there. wow.

well it worked, daniel chimed in. that's all i know. tell them why they call it DownLift the president suggested. well, because you feel thrown to the front of the craft when accelerating forward. up is actually down for the craft while it is being relocated it's actually antigravity inside the ship, and normal gravity outside. it feels to the crew like they are actually slamming on the brakes, even though outside, they are accelerating forward perceptually. they basically create a virtual gravity column in front of the ship. okay. why do you say the gravity at the top of the ship is virtual, isn't it real? no, it's no longer real gravity because the craft doesn't re-localize until it reaches its destination. it was real with orion one five years ago, that's why it sucked that asteroid in. now is that how they hope to go faster than light next year? yes, and that was a great question. and that is why, theoretically, we believe nature has given us a loophole with light. we will not be attempting to accelerate to the speed of light next year, we will try to decelerate to the speed of light. cool, but how can you slow down to a faster speed than you are going? well, we're not talking about classical velocity here, but frankly, they just

like the term because it feels intuitive for those thrown forward in their seats in the direction they are propagating. inside the ship it feels inertially like something very massive is pulling them forward, but outside the ship, no such forces manifest. they no longer suck stuff in from the front.

so how will the c test next year avoid crashing into stuff as it approaches the speed of light? by not approaching light speed from behind, so to speak. essentially, we will let virtual gravity take us past light speed, or rather see what really happens as we get close, if we can get close. we know we can't push matter even close to light speed, let alone to it or past it. in theory, for the test craft, our universe won't even exist for it during its slide. the loop hole is either there or it is not. our first attempt may not even get us close. is there any danger in the attempt? yes, a lot. which is why next year's test will happen outside our solar system. this of course is contingent on the orion program's successes during the coming year.

Ms president, and walter, this is daniel, we've got orion on the line right now. excellent. hello orion, good work you guys and ladies. how are you and our little trillion dollar baby, orion two, holding up? we're fine, it was actually a very smooth ride. systems are checking out well, with a possible restart of the modulator in the planning for tomorrow or the next day. wow. i had no idea we expected not only success, but quick reusability. we'll know in a few weeks what endurance to expect from these kinds of systems, but right now, it looks like our little jewel came through unscathed. ready to go now actually, but we're playing it safe. commander thomas, this is walter at CNN. hey walter. what will the first on orbit test entail? well, not to be overconfident, but it should, we hope, give us a nice smooth slide around the moon and back, in about two hours or so, maybe three. navigation is not such an issue as in the apollo days, since we don't even need to bother plotting a precise path to the moon. i know this is a strange concept, but technically, we could slip right through the moon and not even feel it. but we're not ready to test that just yet. virtual gravitational propulsion, and that's quite actually what this is, takes you anywhere you want to go, except of course, i over state, making it sound much easier and safer than it really is. the biggest problem is, and it is a big one, the virtual gravity drive can still suck stuff at us, or suck us right into a planet if certain fields unglue their interactions. essentially, that would be the virtual gravity snapping back to actual. we don't have star trek deflectors, that was a conceptual error. if there is something near or in our path, it is in virtual space relative to us, until we snap back into the classical physics domain. are you guys all virtual and fuzzy to yourselves or the spacecraft during slides? nope. classical reality inside the ship. nothing outside though. no star fields or whispy clouds steaming by? nope. none of that. total black void outside. the universe doesn't exist.

what happens if the ship malfunctions and behaves the way orion one did in nevada? well, that will suck, again. literally. if the virtual gravity around the ship switches even partially to actual, the good news is, most of the potential stuff out there will actually briefly orbit, loop rather, past us. it sounds messy and dangerous. it is, actually. but that's why the DLC, downlift control has a sister agency at NASA. it's all precautionary, but solar system pathways must be cleared and certified before every flight attempt. wow. can the spacecraft handle collisions, suck ins of

space junk. no. that's what the physical shield will be for, to give us a chance if actual gravity snaps back from virtual. it'll take a hell of a beating, probably smash right off, but it would give the crew at least a small chance of surviving. thank you commander thomas for taking the time for us. talk to you tomorrow.

Ms president, would you ride on that thing, orion, if they offered you the chance? sure, but my secret service people would have hissy-fits. hehe. the audience laughed at length with that one.

Ms president, i'm afraid i haven't asked you the questions on your list. what about the treaty? what about the citizen security act still stuck in commitee? well, as to the treaty, there's no hurry, and yet there is, so we are pushing forward, and listening to our new partners overseas. the russians and chinese are digging their heels in on their insistence that this treaty is a nogo from the start if we don't turn it all over to a global military command, with all the main players having full seats at the table. they want actual full total lockout capabilities by any of the main players, so any of them can neutralize all of earth's quantum weapon capabilities at any time, world wide and in space, if there are to be any. frankly, the united states has already locked in our decision, they just don't know what we've decided. and we've told them that, and refuse to show our hand. one or two of our back channels into the kremlin are dropping suble hints that when the U.S. does show its hand, they're gonna love it. and they will. as to TalkWeb wanting to call it QESP, quantum earth space command, with nobody having the keys to use it on their own, we feel there is room to negotiate that. we are after all, together now as a single earth based family, whether we like it or not. space literally, no longer exists.

as to the CSA, the citizen security act, we're gonna light a fire under congress's but. in these days of investing trillions on new, never-ending space systems developments, the people have a right to expect government to get out of their business, and fund full universal basic income with zero bureaucracy. the last administration finally gave us medicare for all, and costs have fallen through the floor, to everyone's delight. the time has come for the rest. and the time has past for exponential human progress for a few, while leaving most of us behind in the dust to grovel. no one should have to grovel just to eat, or get health care, and a roof over everyone's head if they want it. this is no longer negotiable, it is necessary, and the right thing to do. we've all seen the evidence for ourselves, as budgets first balanced, and then free fell into surplus. no amount of funny accounting methods can hide this truth anymore. when is the last time anyone in the middle class has even needed to clean their bathrooms, or mow their lawns, or go to work for that matter. yes this caught up on us fast, but is here now. we couldn't slow down the economy now if we tried. but all this stuff flying out of our automated factories needs free-money to chase it. even the far right agrees with this principle now. even ostriches take their heads out of the sand when it is time to do so. anyway, i didn't come here to preach to anybody. back to you daniel, or walter.

well, everyone enjoy your evening. go home and watch some scifi in this new light. orion coverage will begin around two in the afternoon. if it even pauses during the night.

good night from us here at CNN. and thank you stef. I suppose we have to go back to Ms president tomorrow, right? i'm comfortable either way. use your own judgement, depending on the situation. good night walter, great job. for those of you interested in the quantum stuff, the downlift, fall up, and other new terms and concepts we've been getting used to hearing these last couple years, tune in at ten in the morning for a two hour, live discussion, eastern time, with walter, daniel, and a panel of experts who will try to bring this stuff home for you. CNN will go live with any communications from orion two during the night.

## CHAPTER FIVE.

wake up will, you sleepy head. daddy's home! what? do i have to go to school today. of course not. you know the rules. parents don't make them all. oh my. get daddy in here, will you will? theo, i think it's time. time for what? oh. oh my. will, tell the car to come around to the front. k pop. and have it send a wheel chair for mom. it's on the way. here it comes now hun. you okay? i'll be alright, it hurts like hell right now. not sure why, my water hasn't broken. oh my GOD? yes it has. try to relax hun, we're on the way. don't let that chair drive me to the car, you do it. of course. but i'm getting in back with you. will can keep the car company up front if he wants too. it's okay will, your mom is fine. just don't talk to the car so much today, okay? what a crazy world. hey car, take us to the hospital. let me talk to it dad. osCar, take us to mom's doctor, and tell him why we're coming. understood will, ready to depart? yes. departing now.

welcome back to CNN this morning, for a talk with the smart guys you've been waiting for since yesterday. this morning we hope that our panel of experts, and translators, into english that is, of this crazy new world we entered yesterday, with the successful slide of the orion two spacecraft, into standing orbit. since the retirement of the international space station last year, as you know, it has been re-purposed. but more on that later in the program. first up we have a conversation with one of the hands on engineers of orion two's quantum field modulator, to try and tell you what it actually does to make the magic happen. welcome douglas carson, from QFE systems. that's quantum field engineering. good morning doug. we here at CNN would like to get our viewers at home to really get a handle on this strange stuff you guys do. not the tech stuff so much. but down to earth. and how it should relate to their lives, the meaningful part, as in what kind of a world are we really living in now? okay, well, we'll try. the first thing we'd like your viewers to know, is this isn't anything unnatural. somehow, we humans have actually begun to really get in touch with nature, with what she has been up to all along. even we at QFE are still spinning our heads. our beliefs about life and all are in transistion, and will be for years to come. we at QFE are tech heads of course, but the human stuff, the real stuff, that is changing for all of us. you are not alone, if you feel confused. this talk online that we're in a holodeck, so do what you want, is not helpful. of course the world is real. and so are you. more real than ever actually, because in a way, this stuff unifies us all, and all our philosophies of life are adjusting to this new reality. and a lot of the old or ancient ideas about the world are actually now shown to be way more true than anyone ever imagined. of course religion is not gone now, as some extremists claim. it is back with a vengeance in a way. with greater clarity

than ever, as we start to look again at it all. now as for this technology, which some say is nearly teleportation.

it is, and it is not quite. the orion spacecraft does relocate in an unusual way. but nature has been doing this under our noses all along, but we didn't notice. philosophers since ancient greece have speculated on the true nature of motion. and some of them had some ideas which seemed like mind games, zeno's paradox and stuff like that. it turns out they were not far off. motion in our world is not always what it seems. but at other times or situations, it is. you've heard NASA these days talk about micro-motion, motion within localization zones. they're referring to the difference between motions like moving your arms and legs compared to taking a trip to a different city. is that what TalkWeb is calling NotionMotion? well ya, actually, kind of a cool new word i think. when you go to that distant city, that motion is more like our old fashioned understanding of motion. but when close-in motions happen around you, something unusual is actually happening. something we finally understand. yes in a way, your arms are actually in nearly all the locations already, the places which you can move them to so quickly, on a whim. all those virtual locations of things in your Qzone are temporal potentials, but are actual, just not yet selected for expression in classical space. and yes, nature is a bit like a holodeck close in, and less so further out. but this is nothing like computer games. life is still not a game, and there are real, physical consequences for what we do. will we get real holodecks like on star trek in a hundred years? more like thirty. and for sure. the astronauts, when performing Q modulator tests for a couple hours before starting the system for an actual SkyColumn ascent, feel real inertial forces shifting to and fro within the spacecraft. they feel like they are making tight turns on a roller coaster, though actually, the craft is sitting perfectly still on its mounts. oh ya, i meant to ask earlier. why the massive mounts? are they afraid it will just fly away? well, you'll probably think i'm kidding, but that is exactly why. it nearly happened six months ago. the thing patially broke loose and was damaged quite a bit. we now know its gotta be bolted down hard. we can't trust gravity anymore now that we are messing with it.

just like orion is now understood to sit within a zone of quantum probability fields, we all are. and just as our tech people here at QFE, funded by our government to engineer orion's quantum modulator engine, to extend orions fields to sort of get free motion through space, you do it all the time without knowing it. and though you can't leap like superman into orbit, nature surely has some nice surprizes coming down the pike for all of us personally. we're not sure it's what the new age people are saying, but you never know. if we've learned anything lately, it best to just wait and see, and know your realistic limitations, and wait for a time someday, when nature will help us all. yes, personally. but there is no predicting when or how or how much.

you've heard them talk about pulling back the puddle, and stuff like that. that's the fields. this new kind of motion technology isn't magic, and if you push the puddle too far, the deceleration forces can break things, or the external actually gravity fields, if they kick out, can do real damage to the ship, or to what ever we pull in. it's like be careful of what you wish for. nature might give it to you. we sure understand that now. as far as the people who try to talk their fields into satisfying their dreams, well, that's prayer, and i only wish we could actually do more

with that route. even scientists now accept that potential. we scientists will continue with our methods. no one is laughing anymore though at spiritual types of people or their attempted methods. who knows what will come of that now that we know that nature in some way, really does listen to us. and she sure can do miracles if we know how to ask, and perhaps what to ask for.

the medical applications of this stuff is only now beginning to be contemplated. anyway, ask us a question so we won't go down so many tangents.

walter, or daniel, you guys ask a question. well, daniel and i were talking some of this over last night, and it took some interesting turns. from meditation and some new age stuff, to questions or speculations really, of where or how we should use this tech, if we really do crack c open next year. we even discussed the sites suggesting a quantum city someday. Qcity. we're centuries probably from that. want a real whopper that sounds crazy but could be done? promise not to laugh. in a thousand years or so, if we continue along this arc of progress, we could literally steer the earth out of the solar system. the power requirements and engineering of this of course would be astronomical. not impossible. will we ever be a type II civilization on the Kardashev Scale? heh heh. that model is broken, the game has changed. we're emerging now as a type Q civilation. that scale no longer applies. you don't mean we surpassed it? in principle we've blown passed it. we have the tools. applying the new tools though, will require centuries.

some quantum field theorists are now claiming that if we crack open the c limitation, the speed of light, that it may crack open wide, like a walnut. they meant that once past c, velocity may be able to jump way, way, way beyond c, almost effortlessly from there. what did they mean by that? well, that's meta-relativity. we really don't know what, if anything is in the next c range. what is a c range? in meta relativity, objects which may or may not exist at speeds above our light speed, probably have their own sub-light relativity. in english please. well, the spread out fields relative to our world, some of it, may actually be physical objects there. we just don't know. there will always be stuff we don't know. if there are actual physical objects in the next c range up, say between c and 2c, that could give us problems. for example, if we do bust light speed next year, will the spacecraft be immediately wiped out by hitting an asteroid in our c range universe, or will our universe be field-like to the spacecraft while above c? we just don't know. and if we manage to get the craft to not be wiped out quickly by anything in our c range universe, will it crash into something up there, which is field-like down here. just because this thing worked yesterday, doesn't answer these theoretical questions. nature is what it is, and she will have the only laugh.

on the c thing next year. douglas, or walter, what do you think are the chances, of passing c, given what you know? pretty good, theoretically, though agreement on this is still not forthcoming from relativists, meta or otherwise. so, we're just gonna try it and see what happens? that's about right. most of the theory folks are still re-writing half of their equations since the orion program actually did something unusual. should we be depressed if nature,

basically, says no on c violation. well no, the solar system is our back yard now. that's reason enough to celebrate until 2099. my people think we got it in the bag, sooner or later, and not very much later. but the big question they're still scrutinizing is, does downlift change the game fundamentally. we think so, but there are still serious reasons to doubt.

okay, let's switch gears for the next hour. we're bringing in a scifi producer from CBS, and one from netflix. and two popular scifi actors, to juice up the conversation, and tackle the ethical issues of our use of this solar system, now that it is opening its arms to us, we hope. what will we find in our own back yard? very good, we'll be back in fifteen minutes, after the long break commercials CNN has begun sometimes, on some shows.

welcome back from the break, daniel, walter, and the others. welcome to you scifi guys. so, do you feel like you were right all along? hell ya, we knew it would happen. not really. we just make movies we would like to see ourselves. but it looks like reality might steal our jobs now. we don't think so, reality in this new space age will give more ideas, and whole new human spaces to explore. what about you actors? come on you guys, chime in, are you jealous of the reality? will you quit acting and sign up for the real thing? i don't think they'd take me, too much baggage, and not enough discipline. they loved your acting on that last trek film, where they reversed back to the old timeline, away from the kelvin thing. well, yes, and we did visit the in-between stories, the fans loved it. they seemed to love the overlap stories most, where we got to re-do original trek episodes exactly, true to canon, but with half of each story revealing stuff not originally seen. so steven, what would a young jim kirk be thinking today, at the dawn of this beginning, real space adventure? well, i like to think we're all james tiberious kirks, or spocks, or scottys in the making. we really may be now. our world just got way bigger after seeming to shrink so much. will we find life in our solar system in the next ten years? we already have. but like us, intelligent, nobody expects that in our solar system. but then, we never thought we'd make it to mars. and of course we haven't yet. but that's across the street now. we have choices to make. where should we go first, on a real mission of exploration. i'd vote for IO, one of jupiters moons, but that's up to the IAO, if the treaty gets signed. do you think we should sign it? our president is the one pushing it, so i guess yes. and yes, i think we all need to consult each other internationally, and agree before we step on other worlds.

on that issue, what do you all think of the efforts of groups lately, forming advisory boards and think tanks, and specifically, that one rather influential scientific think tank, advisory commitee, whatever, strongly against missions to IO. that does seem to be their pet pea. i agree with them. IO is special. leave it alone. we can get plenty of close looks now, anytime we want. we will have our pick of places to check out. let's be sure we have not just scientific reasons for our treks around the cloud, as they're calling the solar system now. let's be ethical. now walter, you were chatting with that guy from fox the other day about private space treks. where did that lead. nowhere really. of course he was all, the government hogs everything, that will never change. of course there will be private ventures, or certainly inclusion of the private sector. but the treaty hasn't even been signed. we're not even sure which nations will be granted access. we all need to remember the risks from gravitational manipulation technology. well, i suppose

we'll finally be getting flying cars, right? that's a good point no one is even talking about yet. and what about real hoverboards instead of those fad fakes from the 2010s? the sky is the limit. plenty of room for the private sector to do what it does best.

well, that is the big question isn't it. will it be declassified in some form? eventually. perhaps not as soon as some would like. at least they didn't keep it secret. well guys and gals, thank you for a fine night of enlightenment and speculation, with a little entertainment thrown in. walter, what about tomorrow's special. oh, thank you daniel. folks at home and around the world, NASA just announced minutes ago, the crew of orion are go for the next downlift, at 8:21 pm tomorrow evening, eastern time. and it is a moonshot, er, whatever they call it now. they plan a not too close loop out, around and back, to test the QF system.

but why the moon? why not? it's just a quick ride to test the system in space for the first time. what are the risks tomorrow? you mean besides the inherent danger of the system itself? no, the dangers of hitting something at 500 thousand kilometers per hour? i think that was the speed someone said it might go tomorrow. well, it might happen. this is the last big, big problem. the system tracks real time possible collision vectors, and remodulates the puddle stretch to evade collision vector potentials. back to english please. okay, sorry. before quantum gravity propulsion, we had no braking capabilities or significant abilities to turn like a fighter jet can in a dog fight. this thing can dog fight if it has to, in space. how can they make sharp turns when space is a vacuum? it's not an airplane in atmosphere which the flight controls can deflect. you know your stuff. that question reveals your knowledge of these problems. this quantum field manipulation drive, can produce inertial forces by changing its relative centering in its own quantum fields. english? okay. it fools itself into thinking a very, very massive object is close enough to the spacecraft to alter the craft toward the fake gravity. that makes no sense. i said it badly, let me try again. in quantum gravity, we discovered that gravity is not actually a pull caused by a massive object, or even really directly caused by a gravitational field in space. it is caused by a self relation of an object to its own field, whether it's centered or not in its own field. it happens that gravitational fields alter that self relation of an object to its field. so we skip the gravitational field part, and alter that relation directly. of course we end up creating an exagerated gravitational field for relatively small, not very massive objects, and the gravity of the object is only on one side of the object, so it takes off running, just chasing itself, or rather, its distended field.

you ever play with gyroscopes? ya, when i was a kid. when you spin a gyro really fast, its own matter fields spread out into the space around it, pulling on it. objects and their fields have to stay together. in fact, if you could actually rip the field of an object out and away from it, the object would just snap out of existence. but it can't be done, even in theory, or so they say. here's one more, i think better example, before we retire this question for now. get on a merry go round, and get it going, spinning around as fast as you can. then feel the pull on you, trying to throw you off the merry go round, out and away from its center. the field of the merry go round is stretched out around and beyond the outside of the merry go round more than usual.

the merry go round wants to be where its field is, but can't because its atomic bonds are stronger than the pull of its own distended field. well, our brains are all used up tonight.

## CHAPTER SIX.

this just in from CNN. communications between the orion spacecraft preparing for the moonSlide are sounding rather intriguing revealing some new QFP terms we've never heard them use. listen in: orion negative hard-SKY aries, positive hard-SKY lunar prohibitive. okay DownLift, we'll look at other trajectories. the crew is itching to go and we're seriously considering a radical request. a long silence. uh, Orion Two, DownLift, what do you have in mind? another long pause. uh, an uh, c 11sec mars loop back. long long pause. jets to cool orion, gotta bump it up.

communications have ceased for now with the spacecraft. walter, what do you make of these new terms and did hear the word mars? i don't think so. daniel check the tape. yes its there. they can't actually be considering it? well i got nothing. can we assume a meaning for that bump up term? well i don't know it sounds like... uh, no i can't say. higher authority? the president maybe. hold on walter, they're talking again. orion, potus-krem-link, standby. five minute silence. uh walter? folks we're frankly baffled by these communications. our people are trying to get some answers as to what NASA and the orion crew are talking about. but no one there in florida is responding. so walter, care to make any wild guesses? i'm not touching this. daniel quick get me a transcript of last ten. welcome back from the break ladies and gentlemen. we're getting word now from the whitehouse, she's uh, president plunkett is requesting airtime this afternoon. as soon as we get this setup we'll go live with the president. and uh, wait a minute. NASA seems to be chatting it up casually with the Commander of Orion One, uh Two sorry, uh Commander Thomas.. anyone have the commanders first name? this thing came up so fast. Shawn. walter it's daniel at the studio. go daniel. on the trascript: potus-krem-link. walter i'm just stuttering and stammering here. is she talking to moscow?. with the president coming on so suddenly, something's up? walter whispers unclearly into his microphone to daniel: say nothing more on air. ladies and gentlemen at home, NASA flight is giving the crew some time chatting it up with their kids, and next weekend's barbeque plans and what not. hold on folks, i'm hearing we're ready and the president does indeed have something to announce, or discuss with the american people.

Ms president, you're on live now with CNN international as you requested. Good afternoon everyone, and God bless. we and the boys and girls at NASA have cooked up a little surprize show for you this afternoon at four thirty one exactly. we encourage everyone to tune in if you can. it should hopefully prove to be something you don't want to miss. something to write home about. so with that, duty calls, thank you and Gog bless. what? a little short. daniel whispers to his co-worker: did you notice she said goG instead of God. this woman does have a flair for showmanship, but she never mis-pronounces words. and she hung on that hard G like she meant something to somebody. and what with that mischievous smile of hers and the

awkward wink. walter rings daniel's private cell. daniel, walter here. shut up on air, and in the studio too. and call me at home after the show.

well folks we're gonna avoid speculating on all this. no one dares play poker with this woman. the russians tried last year and what did that get them? she knocked em off the stage with a wink and a smile didn't she? a lot of embarrassment for them. so let's leave it there for now. whatever this is, we do think it's orion related. but with the family time they're having up there, we think they're maybe planning a show for the kids from orbit. CNN will chime in for the orion show they have planned at four o'clock eastern. until then back to the wild fires in california, after the break.

uh, DownLift, Orion Two, how's the corridor looking outbound? and uh, have we got any c slide numbers on the entire loop? stand by orion working on that. welcome back folks. as you can hear they're back to tech talk again. not a clue what's up, so we can all just listen together and try to learn. ya that's quite a slide orion, but its all the same isn't it? okay orion you're authorized for pre-start procedures. designate S-314. roger. full arc 1182-sec. roger. goCount 60, 16:43E-US. K. hard-SKY negative, persistent. well folks we at CNN have our homework to do. looks like some new terms will be going into our dictionaries again. any ideas walter? daniel? well that one phrase sounds like a longer slide somewhere. i see that daniel. that start count thing looks like a time reference. i guess they're aiming for 4:43 pm. if you remember the president said 4:41, that's only two minutes off. okay folks at home we think we can confirm tentatively that the president has authorized a slide this afternoon. walter, daniel here. go ahead daniel. could you tell the folks at home, and me too frankly, the difference between a slide and a downlift? and what is a hard-SKY? yes that i can explain. well, a slide is the translocation event that happens after the 60 count. downlift is about the same thing, or maybe the dynamics of the slide. i think its technically downlift if gravity goes partially active, or something like that. and hard-SKY? that's a tough concept. but they tell me the term applies to a condition of space they can't get through. they tell me the sky, literally space can be as hard as granite to a ship attempting to slide through. even absolutely impenetrable they say, but they've said nothing of what causes this. and slide through what? no one understands that except the people who designed this thing i guess. requests for further explanations are always ignored. university physics professors are clueless saying the term must be meaningless.

## CHAPTER Seven.

welcome to CNN this afternoon, it's four o'clock on the east coast. this is daniel macdonald coordinating with walter two at the cape. thousands of your fellow citizens at the cape yesterday for the historic launch of the orion two space system are still at the cape. live bands have been brought in and it looks like the woodstock thing back in the 1960s. what would those kids back then think of this new reality the world is entering walter? well, i can't say, maybe a little less, uh, nevermind. sorry. walter, it's about 40 minutes to a possible slide demonstration, or test whatever, by NASA and the crew upstairs. what does the tone look like in mission control? all business-like. just doing their jobs i guess, no nonsense. about a third of the work

stations are just watching monitors. orion, DLC, ATC and NORAD K. roger. a couple minute pause. DLC, O2 requesting SKY-column for Downlift ARIES-LOOP-314-EO. HOLY SHIT WALTER, uh, sorry, did we go live? OH MY GOD. yes. orion two, SkyColumn is authorized, i say again SkyColumn is authorized you have a 14 minute window. roger orion two is now Aries 1 and go for SkyColumn. pause for a minute or so. DLC, ARIES 1, SkyColumn ACTIVE. DLC, Aries, outSlide orbital stable. home orbital stable. DownLift in 60 seconds, MARK. holy cow daniel, you get it, right? i think so. 34, 33, 32, 31.... amazing orange green arc from horizon to horizon high up in the sky. what the hell is that? walter? holy cow daniel, that glowing thing or whatever, they've encircled the earth with it. i think its.. 19, 18, 17.... whoa look at that ring across the sky... 13, 12, 11... whoa... no words ladies and gentlemen. you saw it but what was that? greased lightning just circled the earth from orbit and we could see here it down here in bright daylight. do you here that weird electronic-like sound out of the sky? wow. 5, 4, 3, 2.. whoa did you see that? the glowing whatever in the sky, it just suck up and out of sight. just a little whispy stuff hanging there. oh now its gone. okay, walter confirm this for me. these guys just went to mars right? i think so. any idea how long the trip is to take. no idea, maybe a year or so, no wait. ladies and gentlemen, obviously our government has chosen to reveal in a spectacular way, for reasons to explained later this evening i'm sure, that they've been further along with stuff than they have been able to let on. please accept that they must have had their reasons. this is a time to celebrate, relax and enjoy time with friends and family. orion two, DLC. DownLift Command, Aries 1 back on Earth Standing Orbital on Mars return. oh my god look at those guys on the floor of the launch control room. the director just tossed a chair half way across the room. i've never seen an emotional party like that in all my life. hey walter, i can't help but notice those seven guys and one woman still glued to monitors. ya i get it, they planned this longer than they admit, and decided who gets to scream in joy in at this and who gets the job of still paying attention to business. my GOD ladies and gentlemen, and daniel back at the studio, if i'm getting this right, no this can't be, my GOD ladies and gentlement NASA just confirmed, the spacecraft, i have to sit down for this, the space uh craft orion two, uh Aries 1 has just returned to standing earth orbital after a successful slide around the planet mars in under 12 seconds. that's impossible! my GOD they did it, the thing they promised late next year. i gotta do some math. is that near c or faster, holy, uh, shirt. i guess they've been holding back alright. but for how long? Folks CNN will be breaking for commercials and frankly, getting on the phones. what a ride, this president knows how to throw a party. back in ten.

## CHAPTER Eight.

welcome back ladies and gentlemen. we have our staff on the phones to everyone under sun this late afternoon. were hear the president is enroute to cape canaveral to congratulate the teams on the ground. CNN is getting calls from the russians and chinese complaining they were not given sufficient notice of this trek. why are they're calling us, we have no idea. we'll keep you updated as information comes in. walter, any thoughts? not a one. you kidding? who were you on the phone with for 15 long minutes? you didn't seem to do any of the talking? everybody shut and do your jobs.

daniel, replace me on the set. how long? till i come back! unbeknownst to anyone but walter two, the president just sent the russians a message. sign the damn treaty and play nice. walter can't ever come clean that he in the loop. the president is in nebraska. Madam president, the russians have just put their strategic forces on high alert. okay. okay? yes okay? get me a latte. a latte? make it a cappuccino. Ma'am? you speak english don't you? yes ma'am. stef, the defence secretary is waiting for you. okay hun. get yourself a cup of coffee and join me downstairs. Ms president. i think you know... any orders? no. Defcon one at least? no, don't bother. understood. get yourself some dinner, it might be long night.

## CHAPTER NINE

## DANIEL AND WALTER TWO.

daniel thanks for coming. care for a drink? a coke if you have it. not tonight. liquor is quicker. walter, what the heck was that shut up call and quick hang up? daniel sit down. jack daniels okay? i hate that shit, makes me gag. good. here, drink up. walter? daniel, what i have to say to you this evening never leaves this room. understand? yes, i guess. do you understand? yes. say it. okay. i understand that this never leaves this room.

daniel, what do you think of this quantum field theory stuff that makes orion slide to orbit and to mars and back in only seconds? way cool for sure. now this is the part you can never speak, and i mean on penalty of death, for you and me. holy shirt walter, you are serious. yes i am. okay i got it. daniel, the orion slide was a holographic projection into the sky. walter, you mean it was fake, but i saw it so real? yes you did. that was fake but not exactly.

not exactly? yes. the quantum field theory stuff was fake. the spacecraft is real, not as fast as the light show though, but damn fast. can they exceed light? that part was false and true. they didn't attempt it yet, but actually plan to next year as they said.

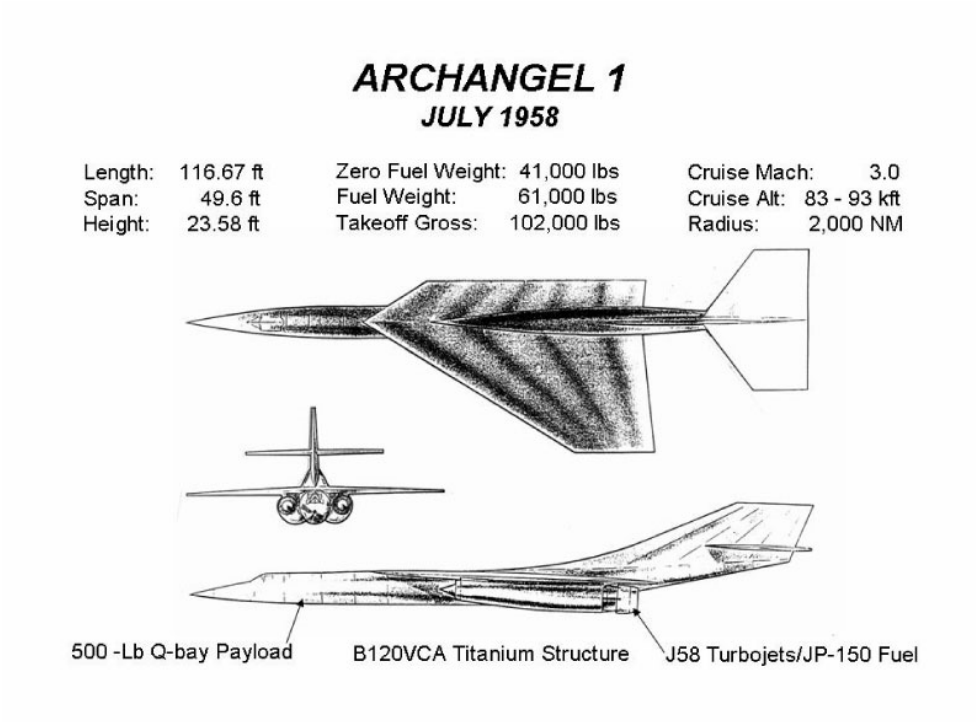
now daniel, this next part is not only confidential, but is actually the most top secret in the united states government. only the secretary of defense, the president, a congressman and i know this, and flight crews and engineers. and one other. you are in line right now to know how the real orion works, and it is not called orion. okay walter, i'm game. if i tell you this you are sure as hell in the game, and it is no game. last chance to walk away. i'm in.

the spacecraft achieves rapid flight the old fashioned way, the way the Skunk Works would have done it if they were still around. okay. Chuck Yeager.



i heard of him.  wasn't he a test pilot or something?  yes he was.  daniel here's a picture of a real attempt decades ago for a hypersonic drone spy plane that didn't quite work out:

okay.  what does this have to do with what's going on now, next year.  look at this one:




okay. the spacecraft readying for flight next year looks sort of like a hybrid of these two, just to give you an idea. but walter if it's a spacecraft, why the wings? they're not wings but they look exactly like they are. there are angled holes in the tail and wingy looking projections for arrays of small thrusters for maneuvering and navigation changes. internal gyroscopes work with these to orient the ship in space and for stabization while under thrust for acceleration. no more tumbling and spinning in the vacuum of space.

cool, so what do they call it? and how will it get to space? good questions daniel. another jack, daniel? sure why not. gettin to like the stuff ay? not at all but pour me a tall one and keep talking.

well believe it or not, in public they call it BS or just bull shit so they can talk in restaurants a little, but keeping it casual and sounding like horse talk. but BS, and this stays in the room, is BlackSky, like the way the SR71 was oxcart.

black sky, luminal space, how you gals doing up there? what's that daniel? a little video recording from last year they let me show you. oh ya walter, i assume they gave you permission to talk to me? of course. oh ya i forgot, you have to sign this. i have to? well ya, it's too late, i spilled the beans all over you. don't worry, it's just you agreeing to die or go to military prison forever. okay. there's my scribble.

okay daniel, with that out of the way, i have a little paper for you to read. it is not secret but it does fairly well describe the actual physics that made the spacecraft possible. but just be sure you never discuss these ideas in a context with anyone that implies any tcechnology has come from these concepts, okay? okay. here's another drink, sit here and read that and i'll be right back. gotta pee, heh heh.

# SSTT. SUPERFLUID SPACE-TIME THEORY.

by Dr T.

this is a physical concept for a grand unification of physics.

the Superfluid Space-Time concept replaces all particles and fields including consciousness.

SST manifests all apparent particles and fields. SST is pure organized energy.

NOTHING UNREAL EXISTS.

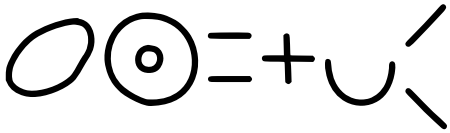
THE SPEED OF LIGHT HAS A PHYSICAL CAUSE.

GRAVITY HAS A PHYSICAL CAUSE.

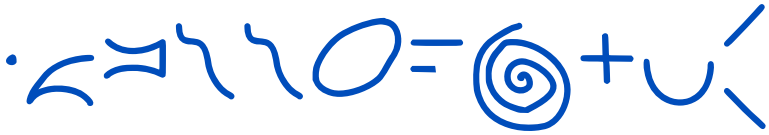
ATOMS ARE ENERGY SINKS.

SPACE-TIME IS A SUPERFLUID.

ATOMS CONSUME THIS SUPERFLUID CONTINUOUSLY.



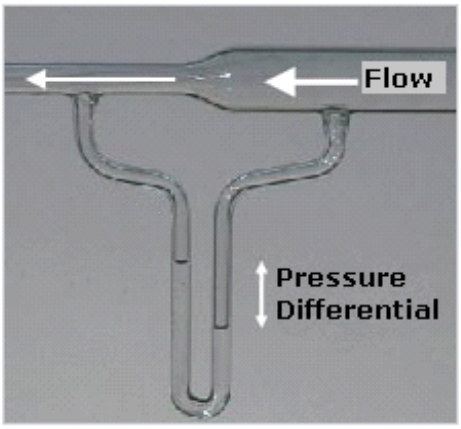
LIKE WATER GOING DOWN A DRAIN.



ATOMS ARE THIS SUPERFLUID SPIRALING DOWN A DRAIN.

BERNOULLI PRINCIPLE.

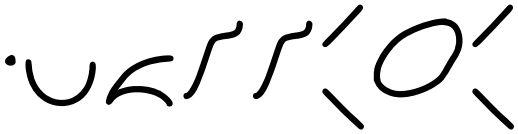
AN INCREASE IN THE SPEED OF A FLUID OCCURS WITH A DECREASE IN PRESSURE.



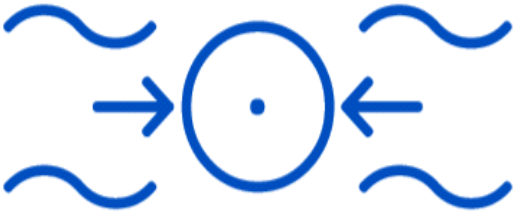

A flow of air through a venturi meter. The kinetic energy increases at the expense of the fluid pressure, as shown by the difference in height of the two columns of water.

haven't you read that thing yet daniel? i ate half the pizza and you're still on what, page two? got stuck on this beroulli crap. makes no sense, how can a fluid squeezed through a venturi have lower pressure? it's squeezed into a smaller space in the venturi. i stayed stuck on that paradox all through my fight instructor days even though i taught it to every new flight student. pressure is from from random motion in all directions pushing on the inner surfaces. as velocity vectors the fluid through the venturi, the vectors are forward, not against the inner surface of the tube. oh okay. wow. it makes sense but still a little unintuitive. it'll soak in. read on, i'll throw some clothes in the wash. is your girl home yet daniel, walter says as he walks towards the kitchen? she's in tucson will her mother. oh everything okay with you two, walter asks from the kitchen. ya we're fine. okay then get reading.

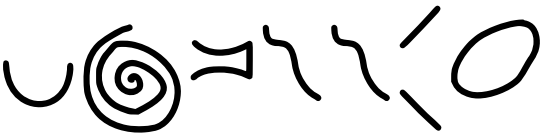
GRAVITY IS THIS SUPERFLUID SPACE-TIME SPIRALING DOWN ATOMIC DRAINS.



ATOMS ARE SUPERFLUID SPACE-TIME DRAINS.



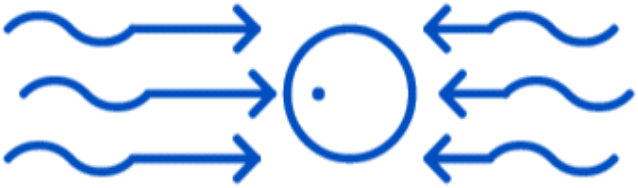
THIS IS AN ATOM AT REST OR IN UNIFORM MOTION.



SUCKING IN SUPERFLUID SPACE-TIME.

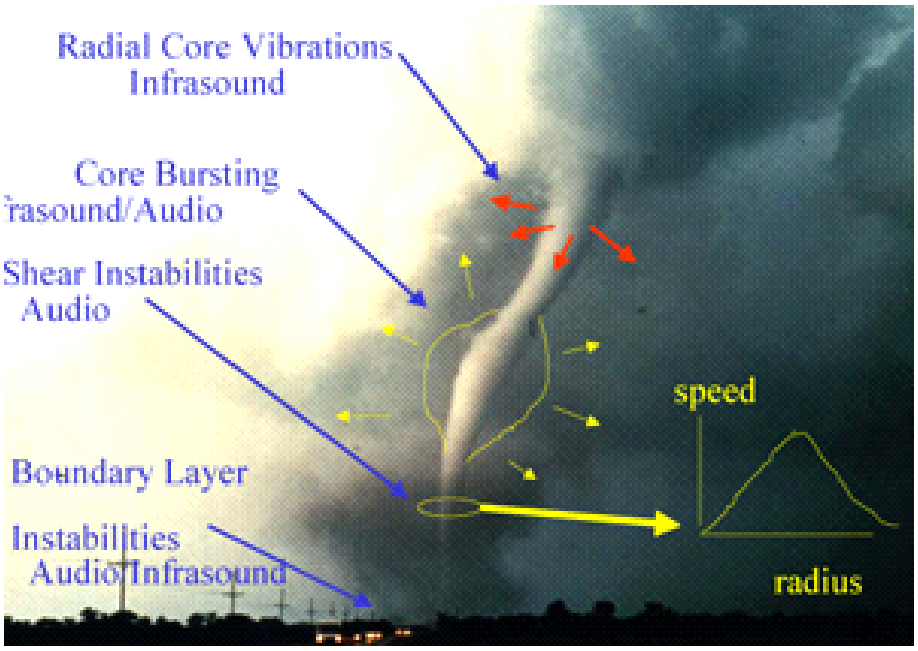
notice that the nucleus is centered in its electron cloud. this means the central low pressure vortex is centered within the outer edges of the vortex. no acceleration force is felt by this atom:

below is an atom under acceleration. physics has long known that pushing on matter is actually pushing on the electron clouds. the nucleus lags behind a little and this is felt as the acceleration force. protons are the low pressure centers of atomic cyclones, tornados. the electron clouds are like the cumulonimbus clouds which become thunderstorms which spawn tornados. atoms are tornados in superfluid space-time.

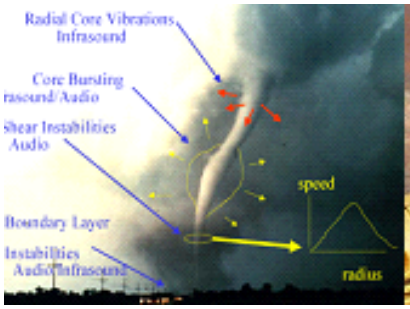


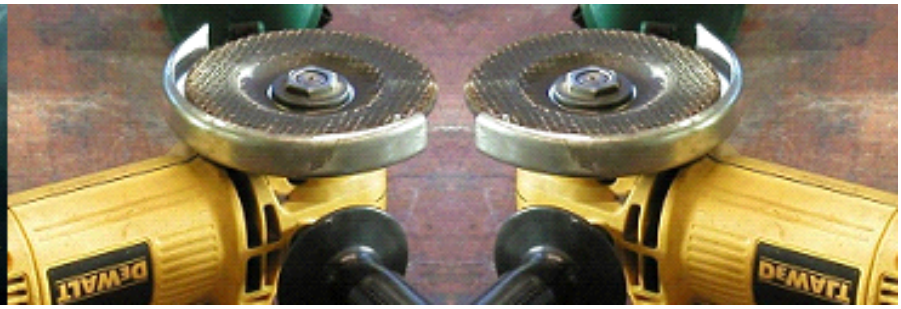
this atom is feeling an acceleration force to the right which is inertial gravity to the left. visualize this as the tornado below. just as the cumulonimbus storm cloud feeds the funnel, the electron cloud is superfluid space-time feeding the nucleus. that is gravity. the protons are the low pressure funnels. the faster the superfluid spirals in, the lower the pressure gets. bernoulli

principle. there is no positive or negative charge to the atom. those are just words for something we didn't understand. the reality is pressure and velocity of the superfluid space-time. and just as the cumulonimbus storm drags the tornado funnel across the ground, the electron storm drags the low pressure proton funnel.




physics has been saying for more than a hundred years that protons repel protons and electrons repel electrons. they call it positive and negative charge, but didn't know what charge is. or where it came from. now we know. that proton funnel is spinning extremely fast like the sanding disks below. if you spin them fast and push the spinning disks together they will bump each other apart violently. don't try it! electrons and protons are not separate phenomena. it is all spinning superfluid.



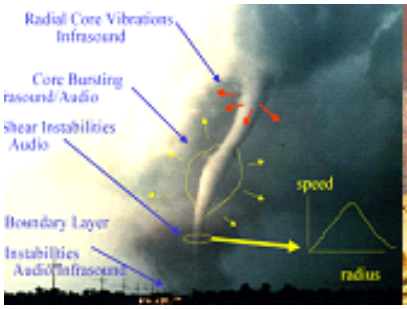


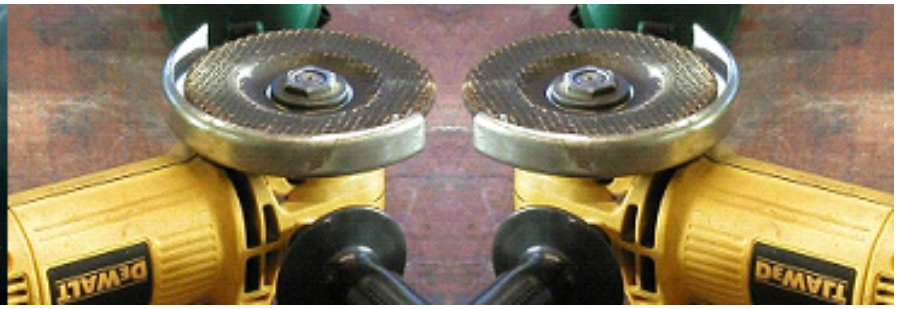

what we have called electron clouds in the past is the outer edges of the cyclone system. when cyclone atoms bump their outer vortex edges, they bounce off each other just like those sanding disks will do. in low energy collisions only the outer edges make contact. but in very high energy collisions the proton funnels can make contact and all hell breaks loose. they call it splitting atoms but it is actually disrupting extremely fast spinning tornados of superfluid.

nikola tesla was right. atoms have no energy of their own. they get all their energy from inflowing, tunneling in, superfluid space-time. SST. it has long been admitted by physics that space itself can move faster than the speed of light. the distant parts of the observable cosmos are said by mainstream physics to be multiples of the speed of light. what they call space or the vacuum of space is the superfluid space-time.

before we continue, what is light? light is disturbances in the superfluid space-time. when atom cyclones collide, just like when those sanding disks bump while spinning at high speed, they give off sparks. with the sanding disks the sparks are hot flecks of metal or whatever the disks are made of. when the outer portions of the spinning vortexes which we call atoms make contact, disturbances in the spinning superfluid radiate out in wave patterns.

the speed of propagation of these disturbances is suppressed by the nature of the superfluid just like the nature of water limits the speed of water waves.






just like waves in water go up and down, not forward, waves in the superfluid space-time medium, light, is not forward motion of the superfluid. the waves of water appear to move towards the shore, but the water is not moving towards the shore. the same with light. light doesn't travel. the superfluid vibrates. light is not anymore real than waves on water. the water is real. waves are disturbances of the water. now of course water does move in streams and columns of water do move in the ocean. an underwater earthquake can force large volumns of water to move toward shore, and in addition waves will propagate along on the moving volumn of water, adding the speed of the propagating waves to the velocity of the moving volume.

the letter c is the limiting speed of the propagation of vibrations in the superfluid medium we call space. this is not the discredited aether concept. that was thought by newton to be a fixed reference frame or medium which light travelled through.

but light doesn't travel, it is just waves which propagate. and a superfluid is extremely dynamic with extremely low viscocity. extremely little friction. the slightest disturbance starts a whirlpool with a low pressure center. bernoulli. that low pressure in the center sucks in more and you have a little tornado, a proton. that proton already has an electron cloud because electrons are just the outer edges of the vortex.

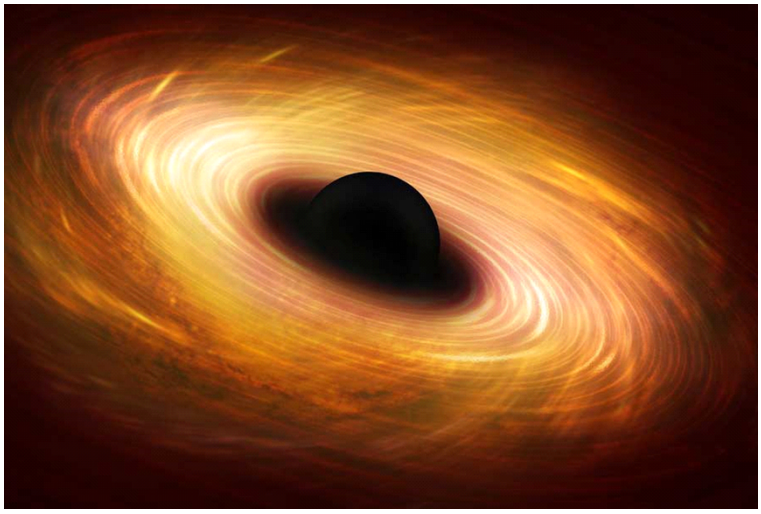
the speed of light c, the propagation of disturbances of superfluid space-time, does have an absolute reference to something, but not a rigid fixed frame. the speed of the waves in the superfluid are relative to the fluid. and the fluid does move. but it limits its own motion relative to itself just like water does. a column of water under the ocean will not go even as fast as a submarine. and submarines are slow.

Two of the fastest flowing ocean currents are the Florida Current running into the Gulf Stream off the USA eastern seaboard and the Agulhas current off the south and east coast of southern Africa. Beginning in the Caribbean and ending in the northern North Atlantic, the Florida Current leading into the Gulf Stream is a north flowing ocean current that reaches speeds in excess of 2.0m/s, particularly in the Florida Current region closest to the USA's eastern seaboard. that's 4.47 miles per hour. that is fast walking speed. interestingly, waves on the ocean propagate at about this speed too. so the motion of the fastest currents is about the

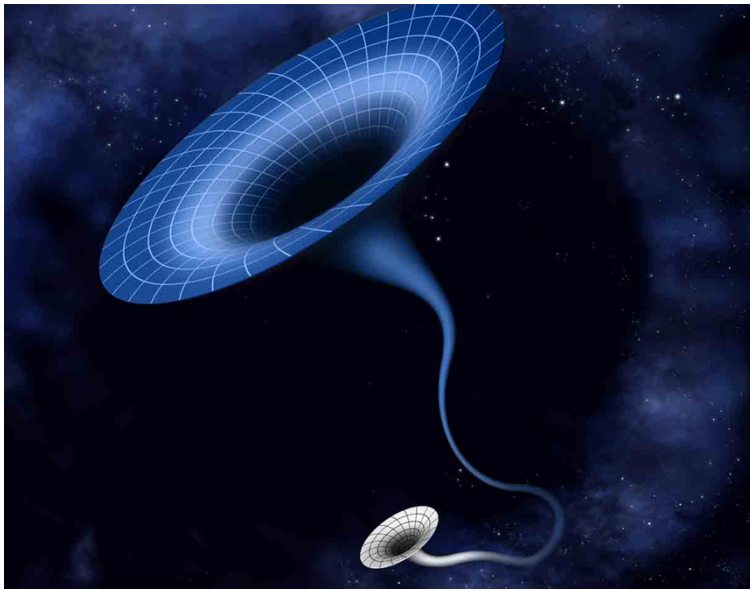
same as wave propagation.  but a high powered system gets actual water velocity to 34 miles per hour.  and much faster can be achieved if you have a need.

special relativity is mathy-logical guessing before we knew anything about superfluidity.  before we knew space was a superfluid.  space can go way faster than light and does in the outer reaches.  but it is stepped up gradually.  special relativity introduces impossible paradoxes, just like quantum theory which has its own major paradoxes.  real science never creates paradoxes.  that's religion.  actually i improperly insult religion when i compare it to oxymoronic special relativity.  just to clarify, special relativity gave us a correct generalization of what is going on as far as we could detect at the time, but no physical explanation.  now we have it.

the next thing i cannot prove, but it is reasonable.  superfluidic space-time passes through the event horizons of black holes at the speed of light.  therefore, light waves which propagate through superfluidic space at c, are propagating at 2c through the horizon.

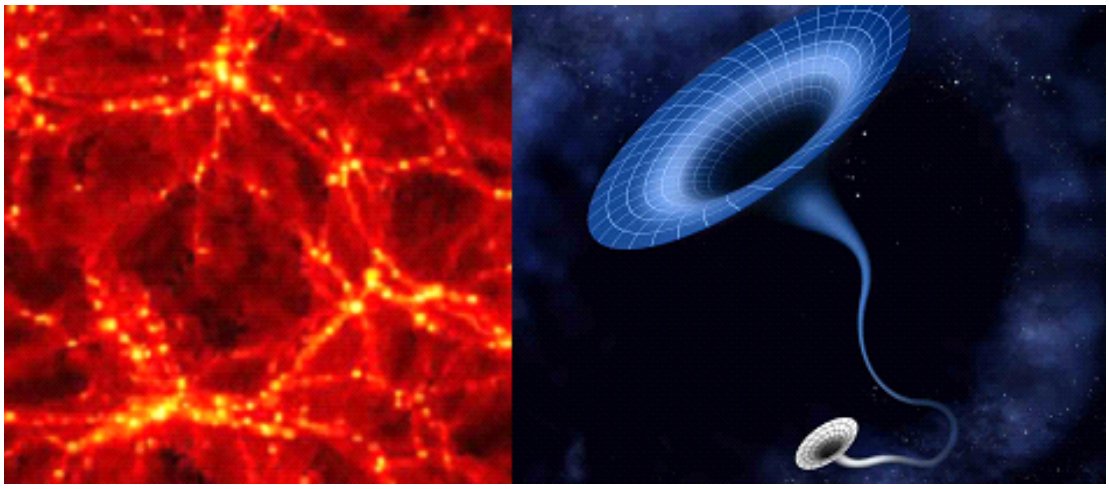


the old gravity theories still believed true claim that mass, matter, generates the gravitational fields and it does this at the speed of light.  this is impossible because if true, black holes would be impossible.  nothing at light speed or slower within the event horizon can influence stuff outside the horizon.  black holes survive because gravity is an effect of the inflow of superfluidic space.  so black holes are superfluidic space-time tornados, just like the little proton funnels inside our atoms.  and inside those funnels is extremely low pressure due to the bernoulli principle.  way more vacuous low pressure than the ordinary outer space they call a vacuum.

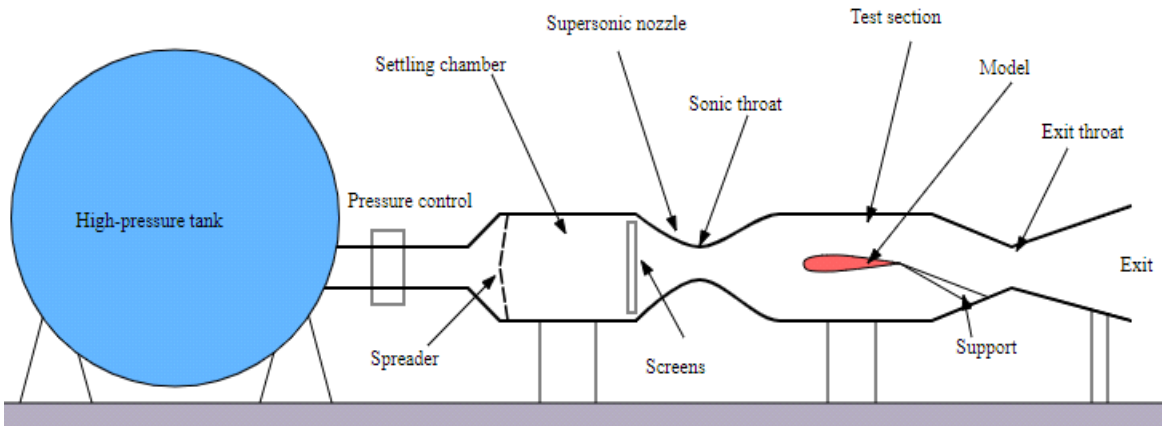


superfluidic space enters the atom perhaps rather slowly. the faster it goes the lower the pressure. so it sucks even harder. until nearing or reaching the protons where it sucks in at about light speed. this is why they believe black holes are essentially super-macro-protons. the faster the superfluid goes the lower the pressure, so protons and black holes are bottomless pits. shearing forces tear apart all the little atom tornados resolving it all into one or more humongous superfluidic space-time tornados.

now here's an interesting fact. the computer simulation image below shows large-scale structure in the universe, known as the cosmic web. Galaxies line filaments of matter like pearls on a string, and galaxy clusters arise where filaments meet.

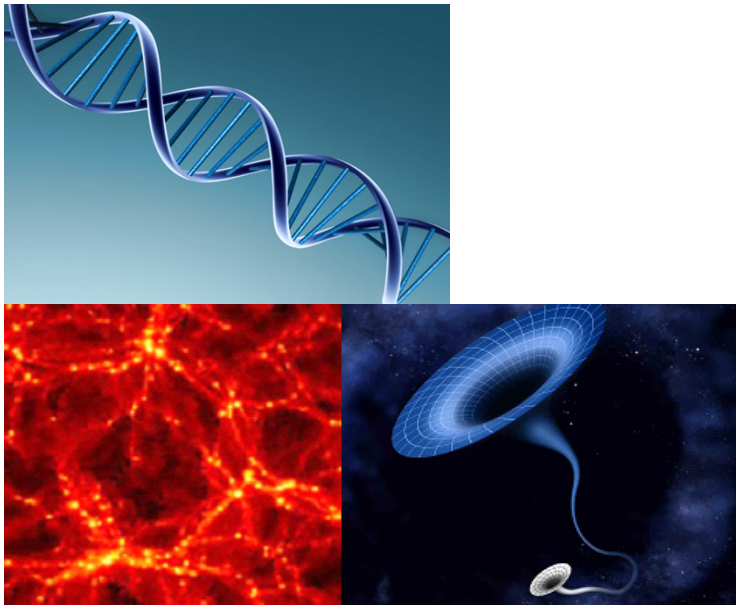


those filaments are probably what we call wormholes. if so then they operate just like the supersonic wind tunnels used by NASA and several national governments.




they are constictions deep within black holes which extend as tubes connecting galaxies. the tubes are probably uni-directional flows of superfluidic space, unless perhaps each matter based black hole must connect to an antimatter black hole. if so there may be a such thing as superfluidic anti-space-time. but this depends on whether matter and antimatter attract or repel. we hope to know within ten years or so on that issue.

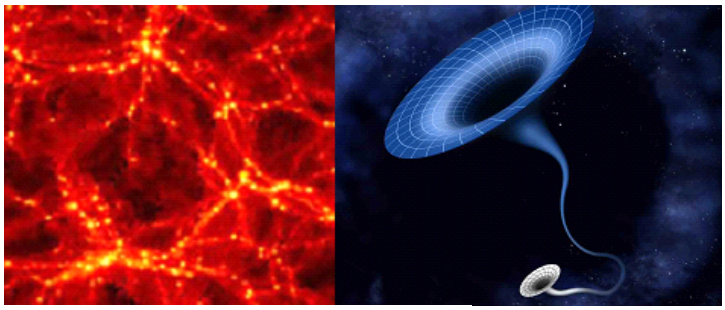
if antimatter is shown in a few years to repel matter, then bi-directional wormholes are theoretically possible. the two flows would intersperse between each other like a double helix.



the stuff spirals anyway since it is tornadic. this might explain why we only find black holes, no white fountains on the other end. both sides are black because both have only anti-space out flows relative to each other which probably produces only anti-neutrinos or stuff like that when it decelerates from superluminal velocities up out of black holes to pass out through the event horizon as anti-neutrinos at only light speed.

if in one tube superfluidic space is flowing at four times light's wave propagation speed, then light waves propagate in that direction at 5c, five times light wave speed. and can't propagate the other way. these tubes would be as black as black holes yet have accretion matter around them radiating light waves.

now it's time to mention time. what is time? time is the flow of superfluidic space into protons or black holes. protons and black holes are spherical. superfluidic space becomes time when it crosses the event horizons of black holes or protons at the propagation speed of light waves. so time at the microscopic scale is the radius of a proton and at the macroscopic scale it is the radius of a black hole. it is still just superfluidic space, but spiraling in faster than the wave propagation speed of light. the experience of time is all the dynamic patternings of the superfluidic space-time as it continuously sustains the tornadic atoms. and all the distortions of the shapes and movements of these tiny stormy tornadic atoms.

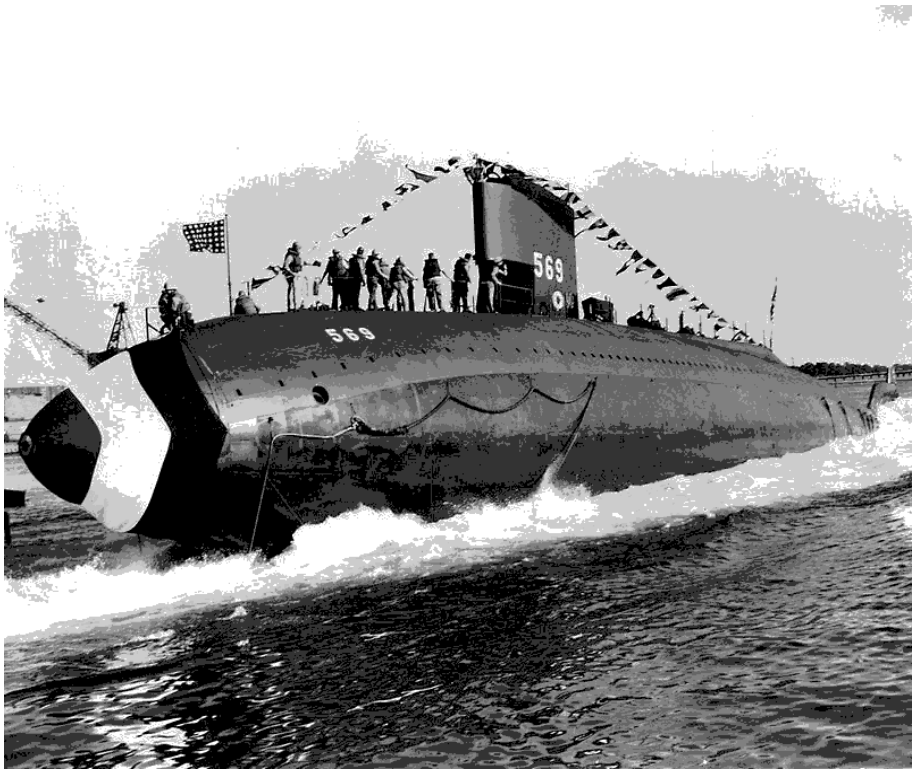


so time is the radius of a sphere pointing in, representing the full dynamics of the electron cumulonimbus storm spiraling down into the low pressure tornado funnel proton. time dilation and length contraction is a distortion of the shape and form of this atomic storm system under acceleration forces due to gravity or high velocity approaching c. gravity is due to inflowing superfluid space. gravity as a reverse linear acceleration force, not mass, goes to extremely high value due to high velocity through the superfluid medium, ram pressure at the front of the moving mass over forces superfluid flow into the front of the atom, perhaps creating a disturbance disrupting inward flow so the atom cannot drink the superfluid, or over rams superfluid into the proton funnel driving it back opposite the direction of acceleration.

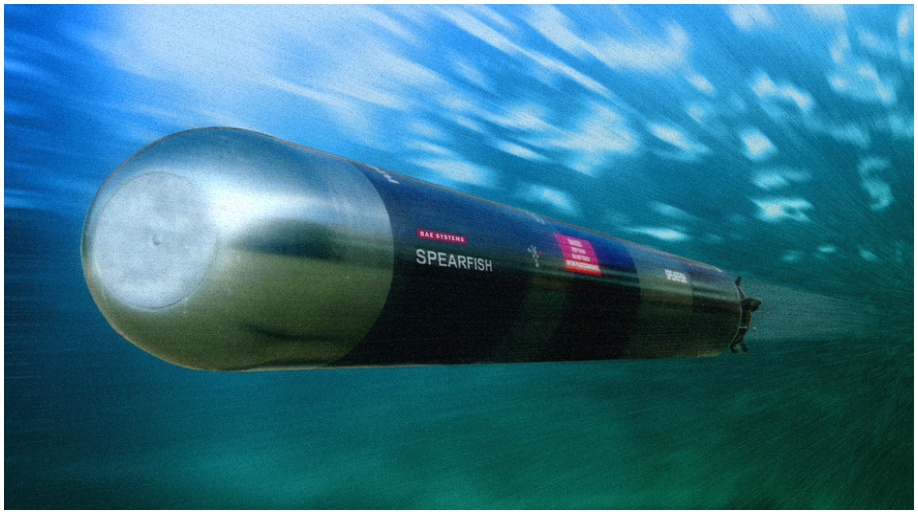
in any case, approaching light wave speed while not too close to c, drives superfluid space-time down the throat of the open electron vortex, down deep into the proton funnel pushing it back inducing acceleration forces. if you were on a spacecraft at constant frame-relative velocity anywhere near the wave propagation speed of light, and you were facing the direction of travel,

you would be pinned in your seat by extreme G forces of hundreds or thousands of times earth gravity even though you are no longer actually accelerating relative to the frame of nearby masses.

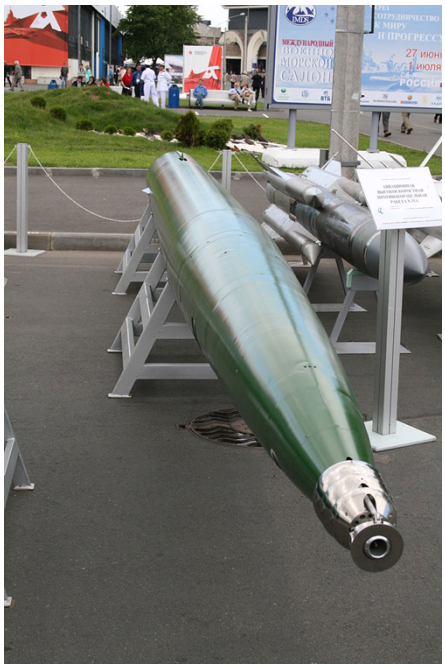
USS Albacore with its teardrop hull claimed 33 knots (61 km/h):




The British Spearfish torpedo designed to counter high-speed Russian submarines, such as the Alfa-class submarine, is reputed to have a speed in excess of 70 knots (130 km/h):




The Russian rocket-powered supercavitating torpedo VA-111 Shkval is reportedly capable of speed in excess of 200 knots (370 km/h):

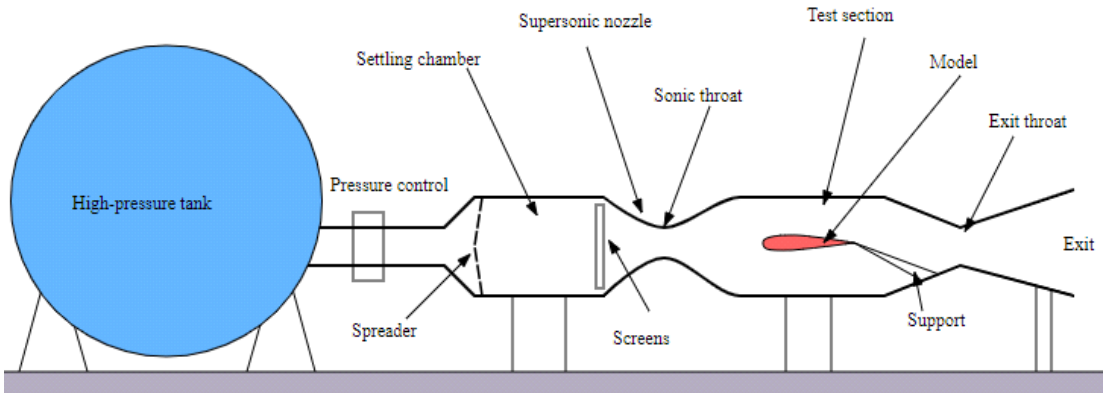


German press reports of an underwater anti-torpedo missile named Barracuda that allegedly reaches 430 knots (800 km/h). now we've hit pay dirt. 430 knots underwater is more than half way to the speed of sound!

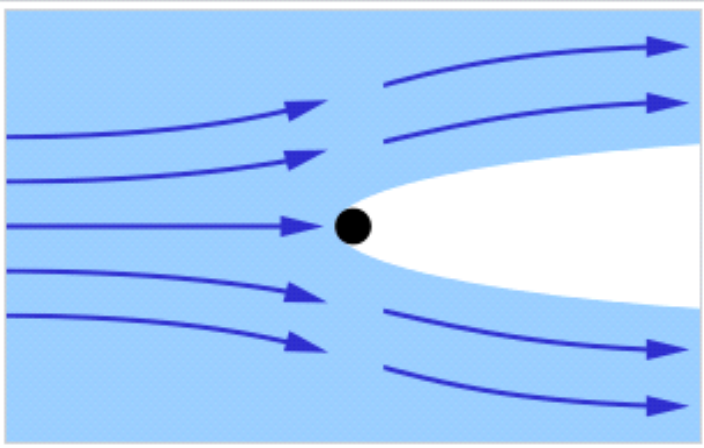
water currents in the ocean only go a fast walk, 4 miles per hour. same with water waves in the ocean. 4 miles per hour. yet torpedos through water can go at least a third of the speed of sound which is 761 miles per hour in air at sea level. the slow walk velocity of water motion and wave propagation speed may equate with light's wave propagation speed, now that we know the real physical cause of light's limiting propagation speed. the russian torpedo at 200 knots is 50 times the fastest ocean currents, suggesting 50 times light speed might be our limiting range for the next few thousand years.

engineering this will require exotic new atomic materials, probably matter/antimatter atoms of extreme strength and durability. that alone may take us a thousand years. light speed was a theoretical limit when our knowledge of light and space-time was theoretical. it is not theoretical anymore. time does not reverse past the speed of light. approaching the speed of light wave propagation rams superfluid space-time down the throat of atoms at the speed of light and they can't handle it at the electron shell level, which is the edge of the atom vortex. atoms only exist if they can feed on the superfluid space. protons can almost handle it. perhaps a proton/antiproton hull could survive the onslaught of superfluidic space-time ram pressure, since space itself is already sucked in at lightspeed at the proton funnel throat.

below is a supersonic wind tunnel. wind in nature can only approach half the speed of sound. sound is vibrations of wind and yet NASA achieves hypersonic wind speeds of at least 4 times the speed of sound. sound cannot back up through the tunnel just as light cannot back out of a black hole.




the speed of sound at sea level is about 761 miles per hour. the fastest recorded wind speed in a tornado was 302 miles per hour. can you grasp the profundity of that last sentence? wind itself can go nearly half the speed of sound. sound is waves in air. and even a torpedo in water can approach this speed by supercavitation.



An object (black) encounters a liquid (blue) at high speed. The fluid pressure behind the object is lowered below the vapour pressure of the liquid, forming a bubble of vapour (a cavity) that encompasses the object.

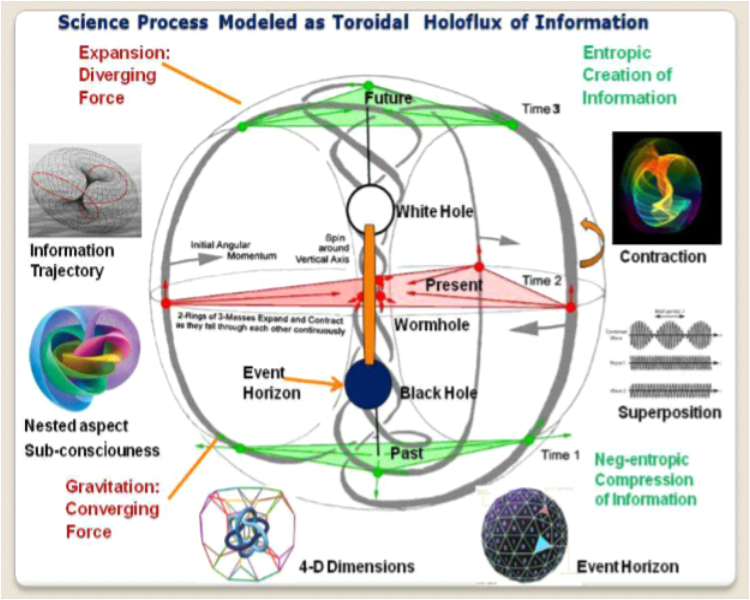
# .....~~~EARTH GRAVITY~~~.....

THE CIRCLE IN THE MIDDLE REPRESENTS A CENTERED ATOM AT THE CENTER OF THE EARTH. IT FEELS NO ACCELERATION FORCES. NO GRAVITY. SUPERFLUIDIC SPACE IS ENTERING THE ATOM FROM ALL SIDES EQUALLY.

THE ATOMS ON EITHER SIDE HAVE THEIR NUCLEI DECENTERED TOWARD THE CENTER ATOM. THEY FEEL ACCELERATION FORCES TOWARDS THE CENTER EVEN THOUGH THEY ARE NOT MOVING. THE TORNADIC PROTONS ARE DISTENDED TOWARDS THE CENTER OF THE EARTH AWAY FROM THE CENTERS OF THEIR ELECTRON VORTEXES.

THE OUTER MOST ATOMS IN THIS SIMPLE ILLUSTRATION, BEING NEARER THE SURFACE OF THE EARTH HAVE EVEN GREATER SUPERFLUIDIC SPACE-TIME AVAILABLE TO BE CAPTURED BY THE OPEN ELECTRON VORTEXES AND SUCKED DOWN INTO THEIR LOWER PRESSURE PROTON FUNNELS. THIS FLOW FROM OUTSIDE THE EARTH, DOWN THROUGH DESCENDING LAYERS PUSHES THE PROTON FUNNELS TOWARD THE CENTER, GENERATING INERTIAL ACCELERATION FORCES KNOWN AS GRAVITY.

below, i think there is a possibility that the universe is a super-galaxy, meaning in this case that there is a flat disk plane of structure like a spiral galaxy embedded in a black hole event horizon. i included this image because it shows a double helix down through the core representing my idea that a spinning bi-directional wormhole may be possible if antimatter repels matter. it's a wild idea but i thought i should put it out there to flex the mental muscles. if matter and antimatter attracts and annihilates a bi-directional black wormhole system is still conceivable. a one-directional system would seem less problematical, but in that case how do we explain the evidence that galaxies are strung on cosmic filaments. it seems they couldn't do that without the alternating polarity.




if antimatter does repel matter, this may also suggest the possibility of superfluid anti-space, anti-time, and of course anti-gravity. the double helix would be a natural geometry for separating opposing flows of matter and antimatter.

and that suggests another wild but not unthinkable possibility of alternating matter and antimatter spiral arms.

now back to the core idea of SSTT, superfluid space-time theory, SS, superfluid space. is there any chance that SS is scale invariant? that is, could SS host vastly smaller and larger universes? inside of galactic black holes for example, and outside of our universe. a physical concept for full scalability is difficult to imagine. water flows the way it does because of its dipole molecules that look like mickey mouse, the face being the oxygen, the ears hydrogen. for a universe inside a black hole made of our stuff, the SS of our universe would either need to be a fluid not made of parts, or made of scalable parts that can shrink entering the funnel of black holes.

now just for fun, even though it is thoroughly impossible, imagine you and your spacecraft are 100 percent scalable all the way down through your atoms. you could fly into the funnel of a black hole wormhole network, and scale down smaller as you fall in, eventually becoming infinitely microscopic as needed to avoid the crushing and shearing forces that would destroy non-scalable matter. honey i shrunk the ship, and us too!

:-)

BIG QUESTION:

## IS CONSCIOUSNESS SCALE INVARIANT?

# BIG BANG SHEET THEORY BBST

IMAGINE A SHEET OF PAPER WITH HOLES ALL THROUGH IT AND SLIGHTLY LARGER HOLES AS YOU APPROACH THE CENTER OF THE SHEET. THIS TWO DIMENSIONAL SHEET REPRESENTS THE THREE DIMENSIONAL SPACE OF SUPERFLUID SPACE-TIME. USUALLY THIS IS CALLED THE QUANTUM FIELDS WHICH SPONTANEOUSLY GENERATE SHORT LIVED PARTICLE ANTIPARTICLE PAIRS. BUT THIS APPROACH CONSIDERS SUPERFLUID SPACE-TIME TO BE THE UNIFIED FIELD.

NOW IMAGINE A STRING CONNECTED TO THE CENTERMOST HOLE FROM ABOVE THE SHEET. THINK OF THIS AS THE ORIGINATING SINGULARITY THAT STARTED THE BIG BANG. IN BIG BANG THEORY THE EVENT BEGAN AT A POINT AND SPREAD OUTWARD IN OR AS SPACE AT MILLIONS OR MORE TIMES THE SPEED OF LIGHT. IN THIS BIG BANG SHEET THEORY, BBST, THE QUANTUM PARTICLES EMERGED NEARLY ALL AT ONCE ALL OVER THE VAST DISTANCES OF SPACE. IT WAS AN ILLUSION OF SUPERLUMINAL INFLATION.

THIS IS COMPLETELY IN AGREEMENT WITH CURRENT STANDARD BIG BANG THEORY, EXCEPT THE PARTICLES ARE ACTUALLY VORTEXES OF SUPERFLUID SPACE, AND THEY EMERGE OUT OF SPACE ALL OVER NEARLY AT ONCE, WITH THE SINGULARITY AS THE POINT WHERE THE FIRST VORTEX PARTICLES EMERGED JUST VERY SLIGHTLY BEFORE THE OTHER VORTEXES, AS IF PULLING UP ON THE STRING OF THAT SHEET OF PAPER, LIFTING THE WHOLE SHEET WITH THE CENTER JUST SLIGHTLY AHEAD OF THE REST. THE WHOLE SHEET OF SUPERFLUID VORTEXES, QUANTUM PARTICLES IF YOU PREFER, EMERGES FROM SUPERFLUID SUBSPACE TOGETHER WITH ONLY TINY FRACTIONS OF FEMTOSECONDS DELAY BETWEEN THEIR EMERGENCES FROM THEIR OWN LOCAL POSITIONS ACROSS FLUIDIC SPACE. THEY EMERGED ALL OVER VAST SPACE VIRTUALLY ALL AT ONCE. THUS BIG BANG SHEET THEORY, BBST.

THE IMPOSSIBLE PROBLEM OF SUDDEN SUPERLUMINAL INFLATION IS ELIMINATED.

PICTURE A CALM SUPERFLUID SPACE-TIME LIQUID WITH SPREADING WHIRLPOOLS GENERATING LOW PRESSURE EYES LIKE SPREAD OUT GROWING TROPICAL STORMS ALL ACROSS VAST SPACE AND EVENTUALLY DUE TO THE BERNOULLI PRINCIPLE IN WHICH AN INCREASE IN THE SPEED OF A FLUID OCCURS WITH A DECREASE IN PRESSURE, THE LOW PRESSURE DEPRESSIONS DEEPEN, STEEPENING THE VORTEXES UNTIL ALL OVER VAST SPACE, THE VORTEXES BECOME SUPERFLUID CYCLONES AND THEN TORNADOS, AS THE QUANTUM VORTEX PARTICLES EMERGE EVERYWHERE IN VAST SPACE AT ONCE. IT APPEARS TO BE A SINGULARITY EXPANDING OUTWARD IN SPACE AT SUPERLUMINAL VELOCITIES BUT IT WAS NOT. THE VORTEX PARTICLES WERE READY TO EMERGE ALL OVER VAST SPACE BEFORE THE FEW CAME THROUGH SLIGHTLY BEFORE THE OTHERS.

# BIG BANG SHEET THEORY

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