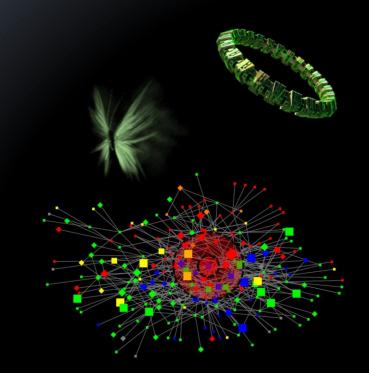


Cybernetic Transformation of Next Human Generation

Be successfully smart with a personalized knowledge-base by connecting dots in STEEMA

EdTech in AI & KT



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Cybernetic Transformation of Next Human Generation



Motivations – Vision & Value (Macro Finance)
Applications – Problem-Solving Co-Op w/ Al
Knowledge & Skills – Maker-SOP in STEAM
Cybernetic Training Pyramid

Current ed systems need to enhance:

- Understanding the World
- Critical/Creative Thinking
- Smart on Information
- Social Skills



Cybernetic Transformation of Next Human Generation

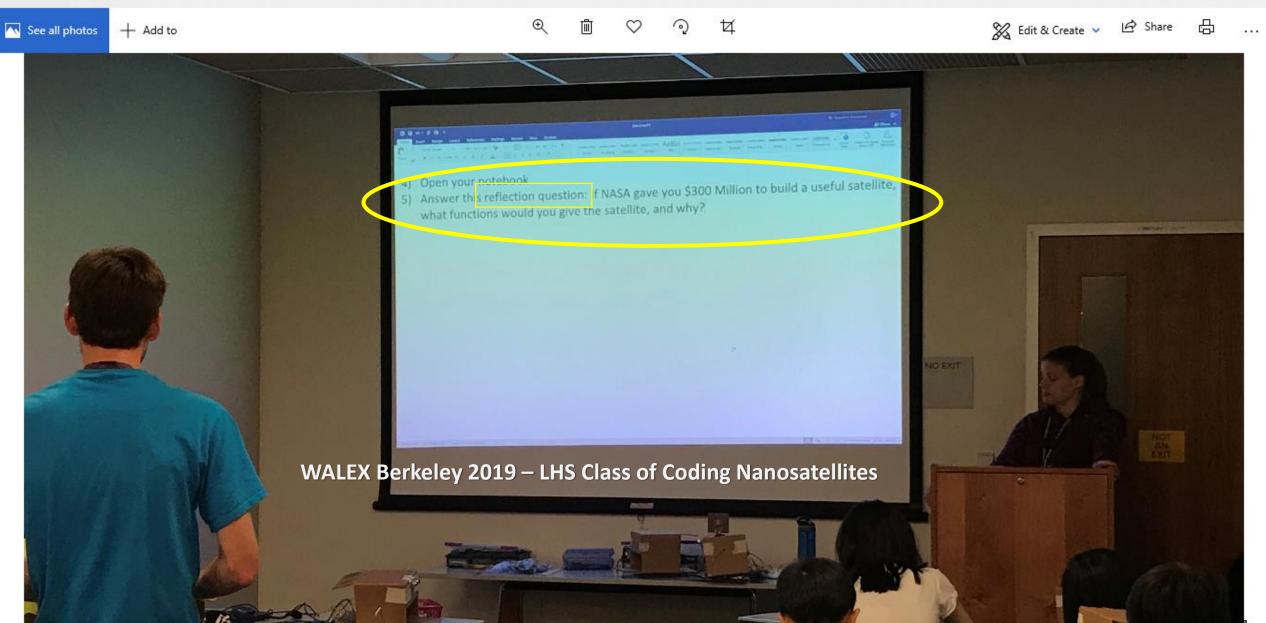
Cybernetic Learning Program CLP 5x5x5 - 20190831

M FinTech/BioTech/EdTech/EnviroTech/AstroTech Al NLP/KG/VAR/BC/QC STEAM S/T/E/A/M

♦ M : AstroTech – Satellite-Internet

Al : Quantum Computing – Feynman's Ideas

STEAM : Math – Function/Superposition



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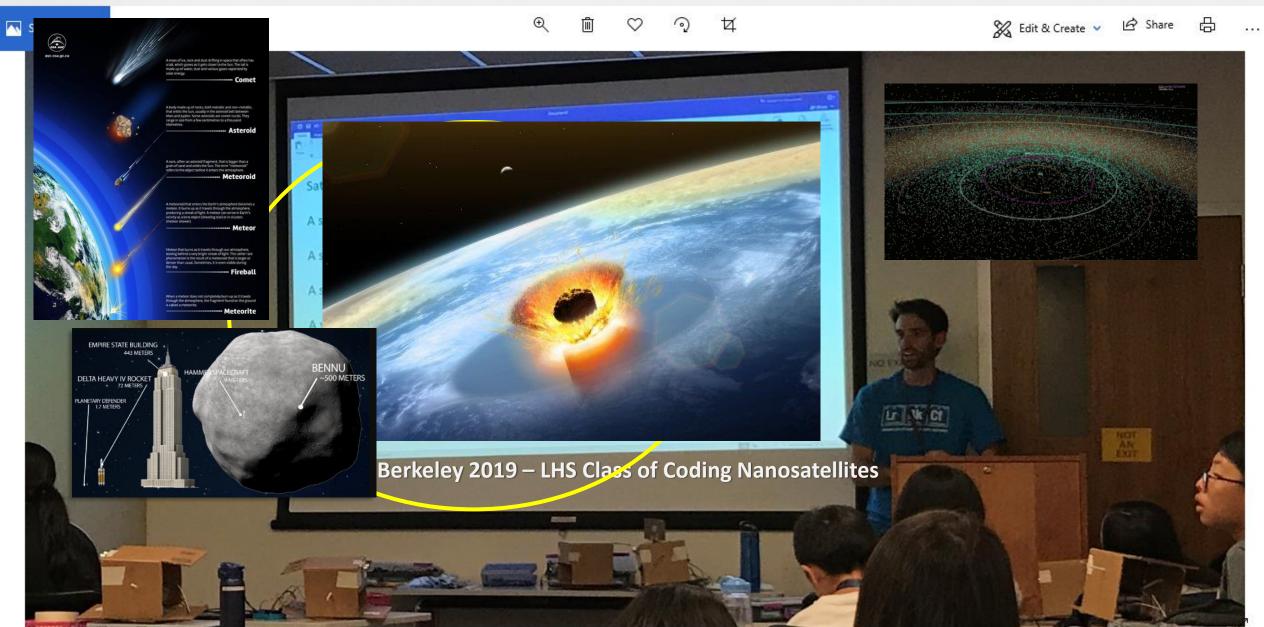
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Cybernetic Transformation of Next Human Generation

M : AstroTech – Satellite-Internet ISLEMMA-Chain-of-Keywords : eCommerce-King-Amazon-CEO-Bezos-World-Richest-Man having*?! Space-Dream w/

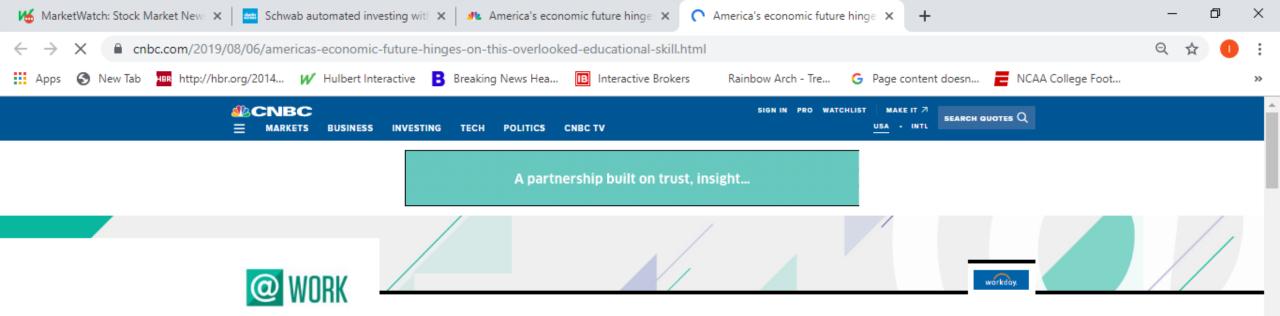
Satellite-Internet - 2?!-Blue-Moon Amazon-Al-Alexa-Echo-Smart-Home-IoT

Satellite-Internet-IoT-5G/Quantum-Internet*w/ Hacking*-Proof

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Q.Q

20190531 20190524



America's economic future hinges on this overlooked educational skill

PUBLISHED TUE, AUG 6 2019 • 10:30 AM EDT I UPDATED TUE, AUG 6 2019 • 9:03 PM EDT



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FOINTS STEM (science, technology, engineering, and mathematics) educational initiatives will not create the next generations of leaders that can maintain America's global edge.

- Entrepreneurs create more than twice the number of Jobs as large legacy companies, according to a 2016 EY study.
- Business icons including Bill Gates, Steve Jobs, Jack Dorsey and Oprah Winfrey used the spirit of entrepreneurship to drive innovation.

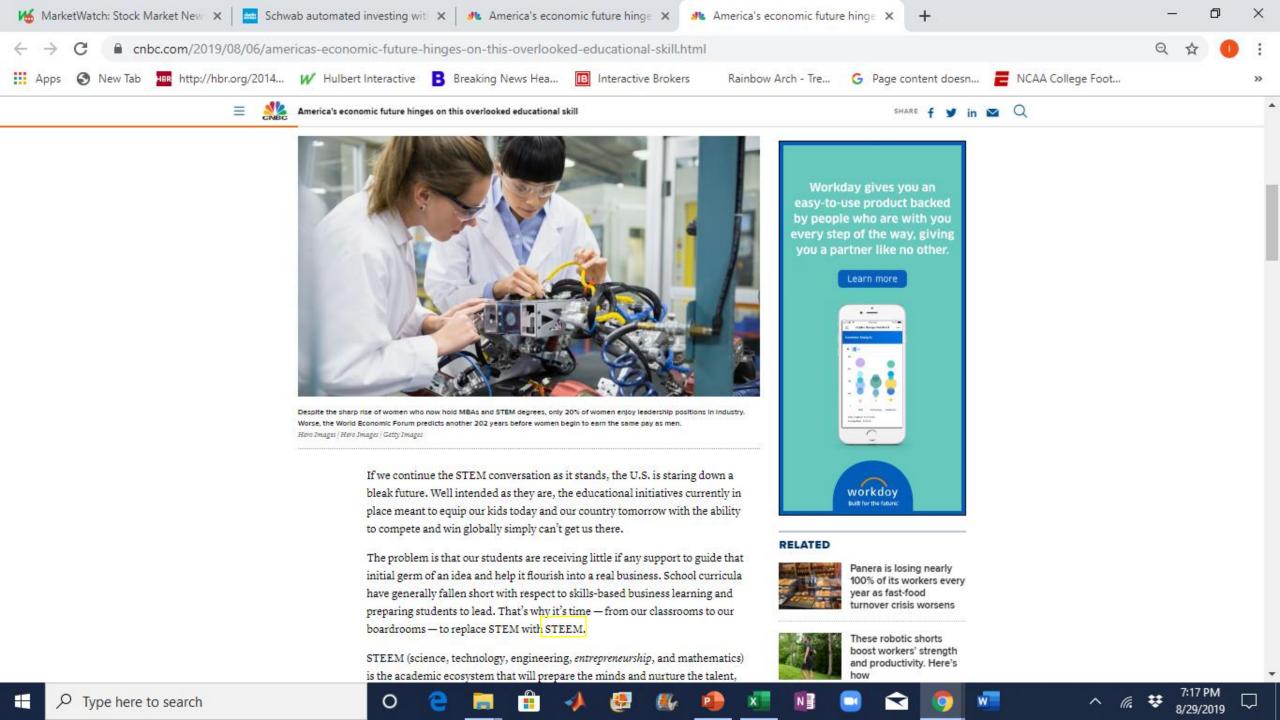
User-friendly. Also just friendly friendly.

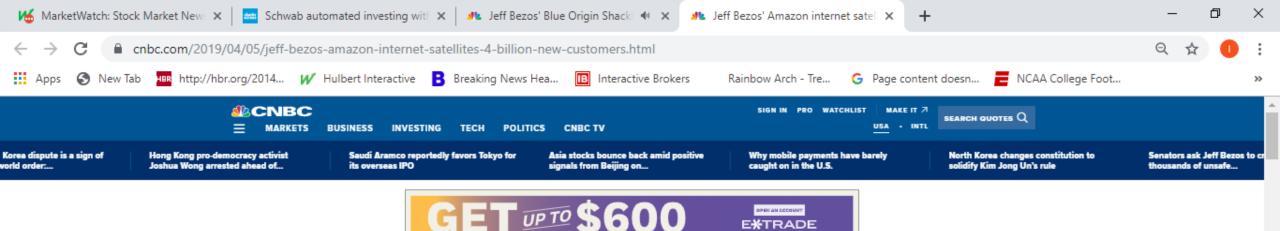
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INVESTING IN SPACE

Here's why Amazon is trying to reach every inch of the world with satellites providing internet

PUBLISHED SUN, APR 7 2019 • 10:00 AM EDT | UPDATED MON, APR 8 2019 • 10:27 AM EDT

Michael Sheetz **OTHESHEETZTWEETZ**

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KEY

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 Amazon is working on Project Kulper, which would put 3,236 satellites into orbit to POINTS provide high-speed internet to any point on the globe.

> "You can see the clear profit motive here for Amazon: 4 billion new customers," Space Angels CEO Chad Anderson said.

 CNBC spoke to more than a dozen space industry analysts and executives about Amazon's proposal and the customers, competitors and costs involved.



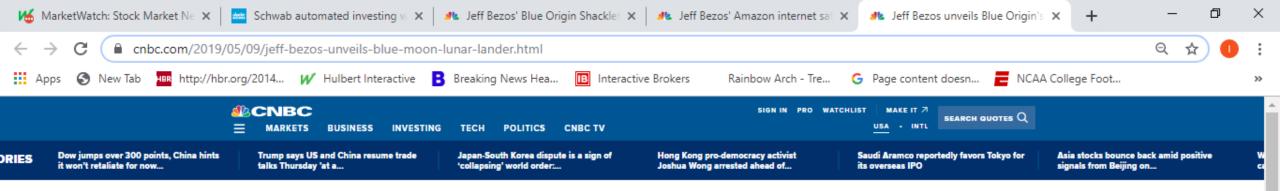
What next-gen networks are doing for our next-gen workforce

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Paid Post For T-Mobile

TRENDING NOW



AEROSPACE & DEFENSE

Jeff Bezos unveils lunar lander to take astronauts to the moon by 2024

PUBLISHED THU, MAY 9 2019 + 4:42 PM EDT | UPDATED FRI, MAY 10 2019 + 4:25 PM EDT

Michael Sheetz OTHESHEETZTWEETZ

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KEY POINTS

- Blue Origin founder Jeff Bezos unveiled the company's "Blue Moon" lunar lander on Thursday, as well as a new BE-7 rocket engine.
- "I love Vice President Pence's 2024 lunar landing goal," Bezos said, adding that Blue Origin can meet that timeline "because we started this three years ago."
- Bezos invests more than \$1 billion in Blue Origin each year, through sales of his Amazon shares.

TRENDING NOW



US intel assessment says mysterious Russian explosion was not from testing nuclear-powered missile

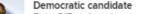


Panera is losing nearly 100% of its workers every year as fast-food turnover crisis worsens





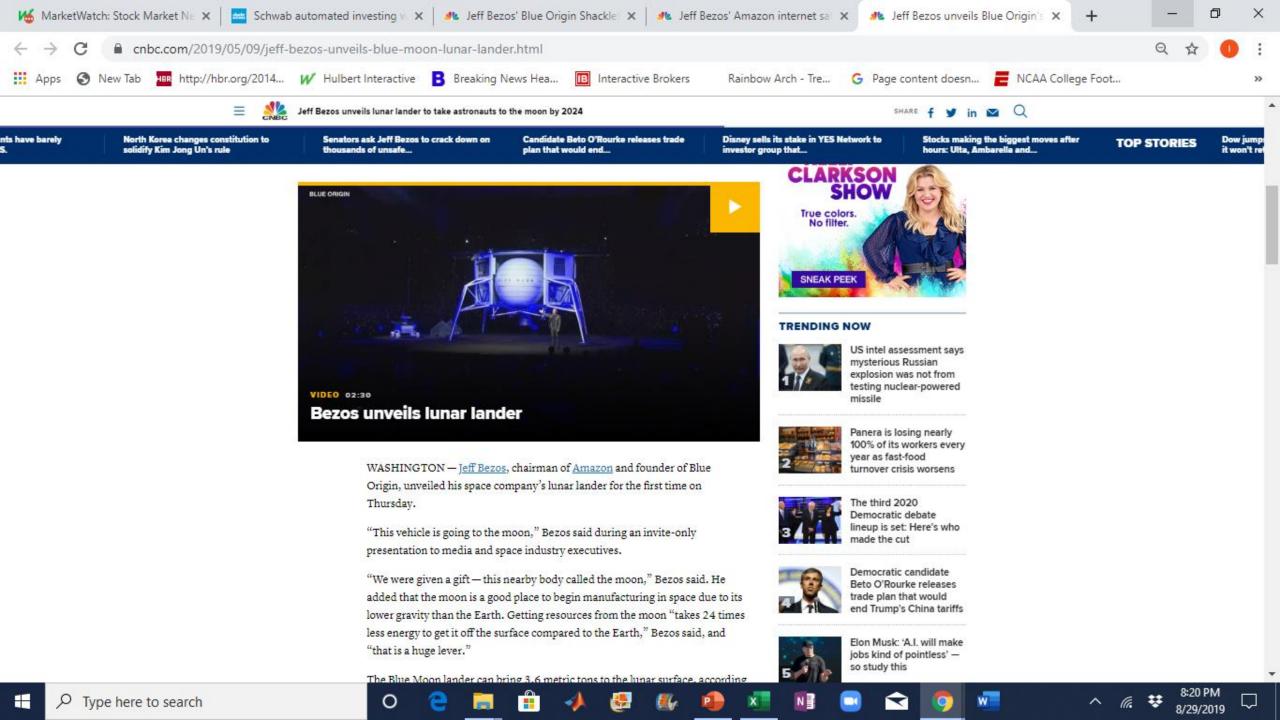
The third 2020 Democratic debate lineup is set: Here's who made the cut

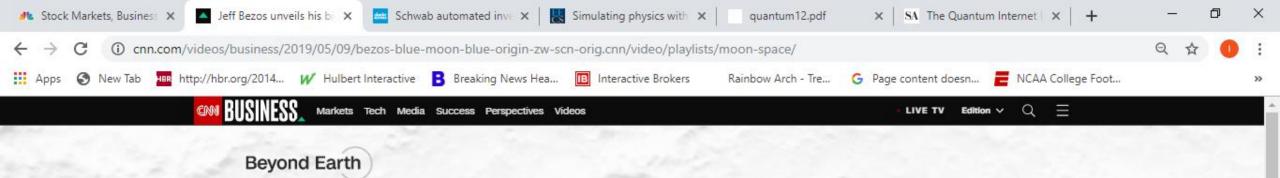


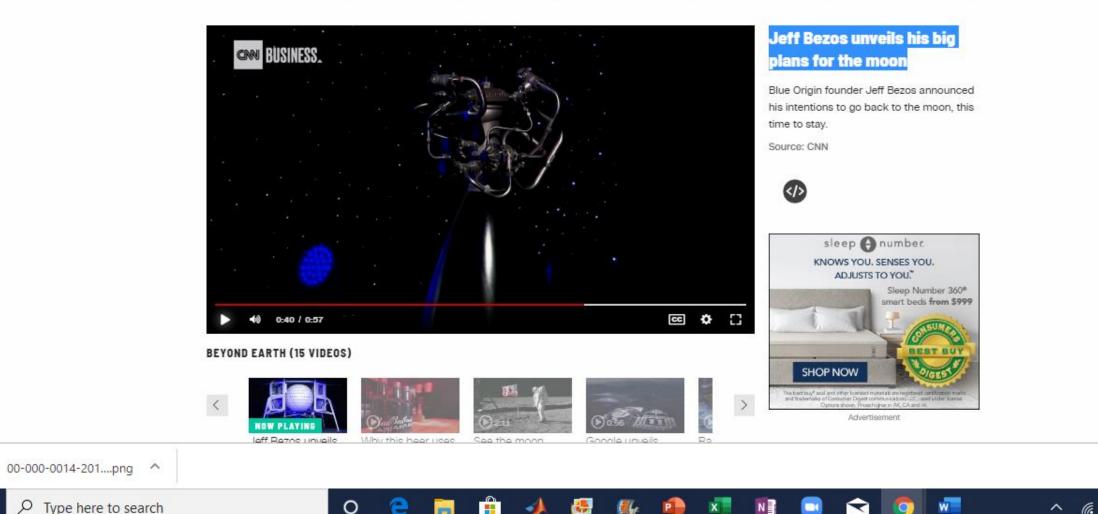
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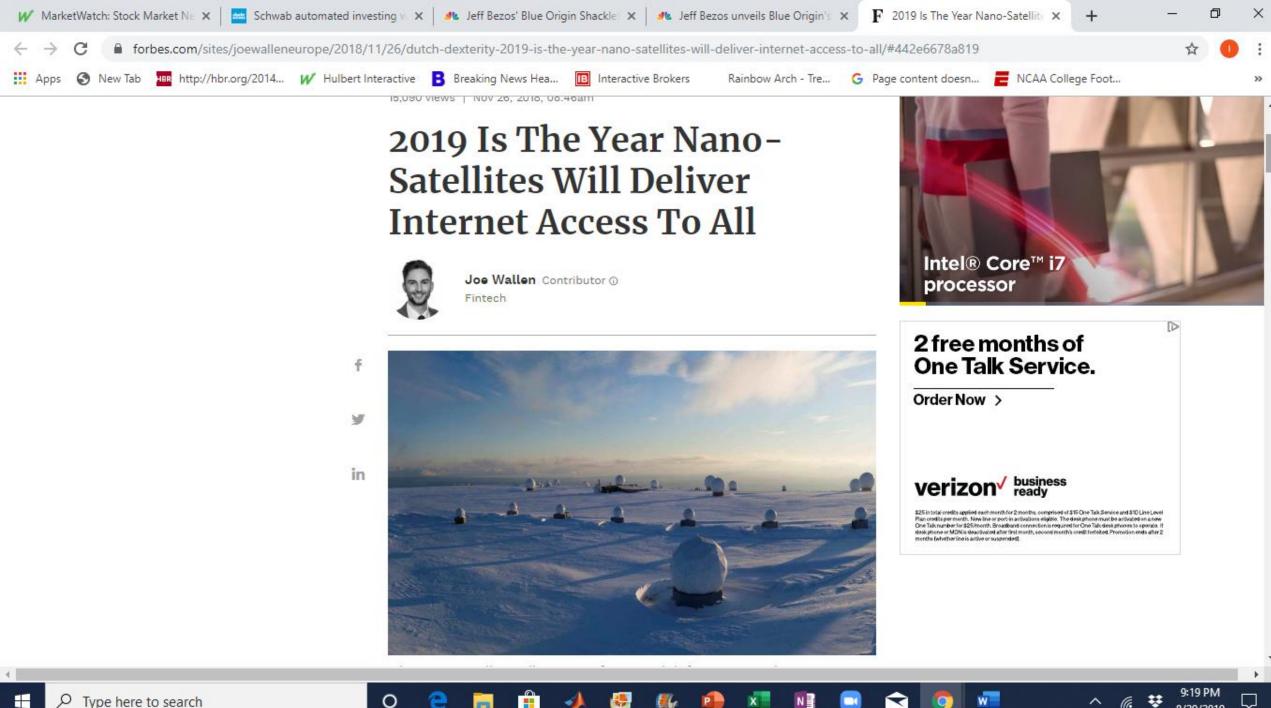
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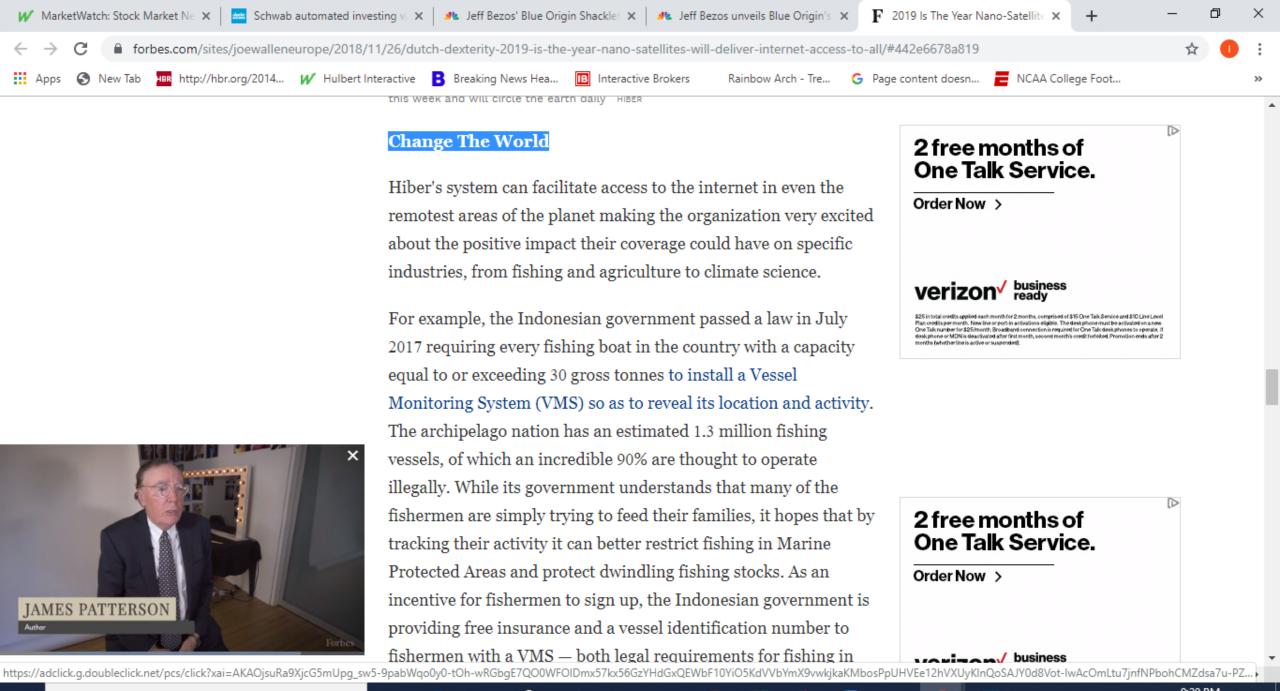
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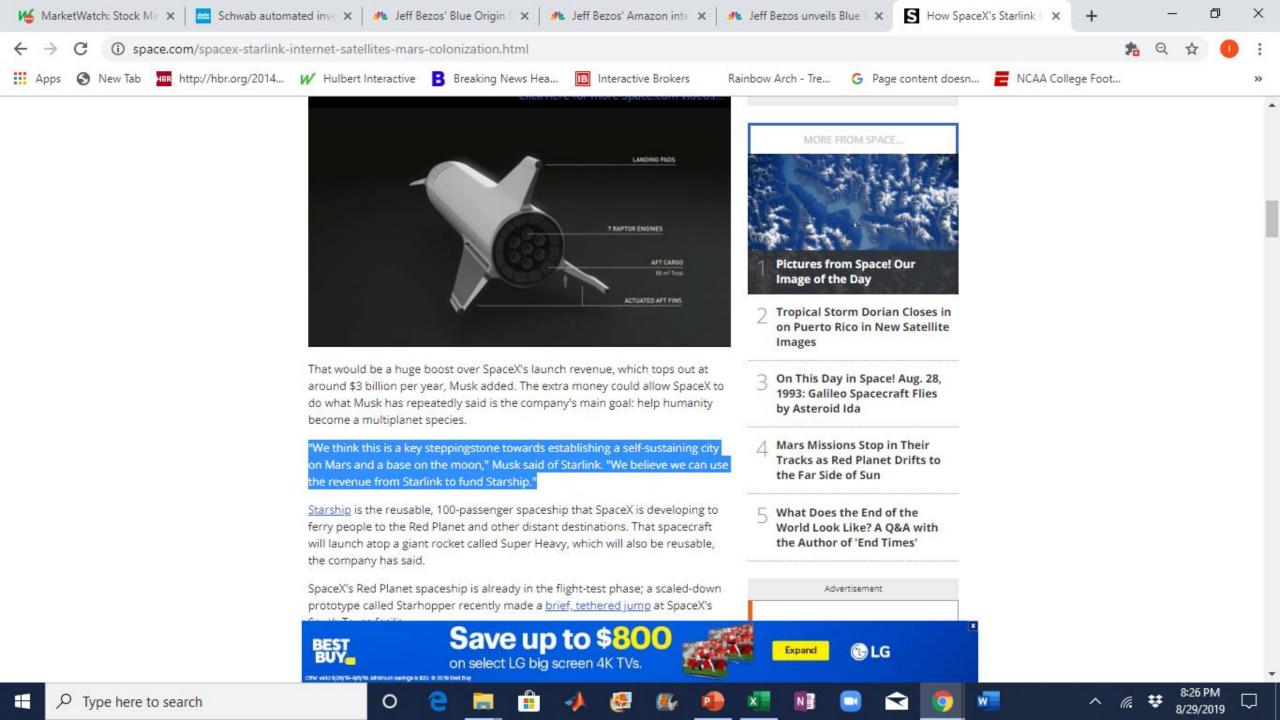
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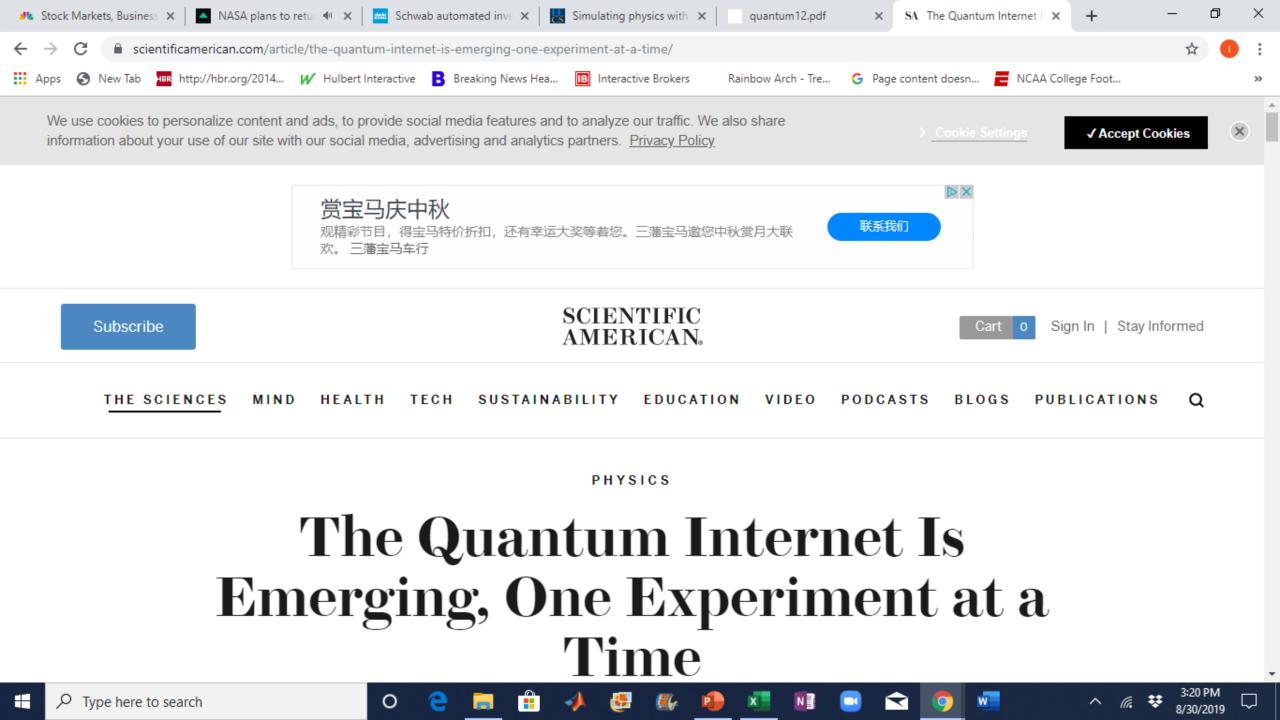


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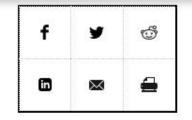
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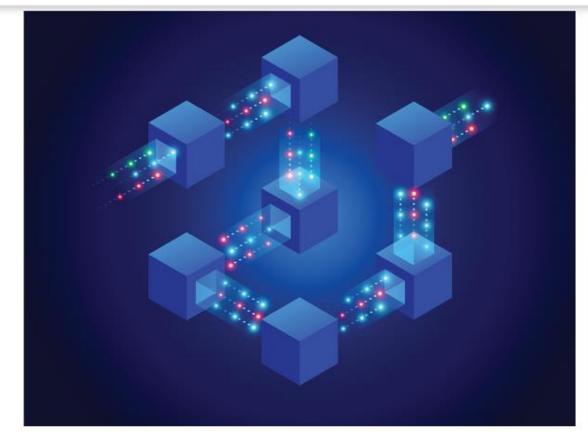






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СОМРИТІNG How Close Are We--Really--to Building a Quantum Computer? May 30. 2018 — Larry Greenemeier

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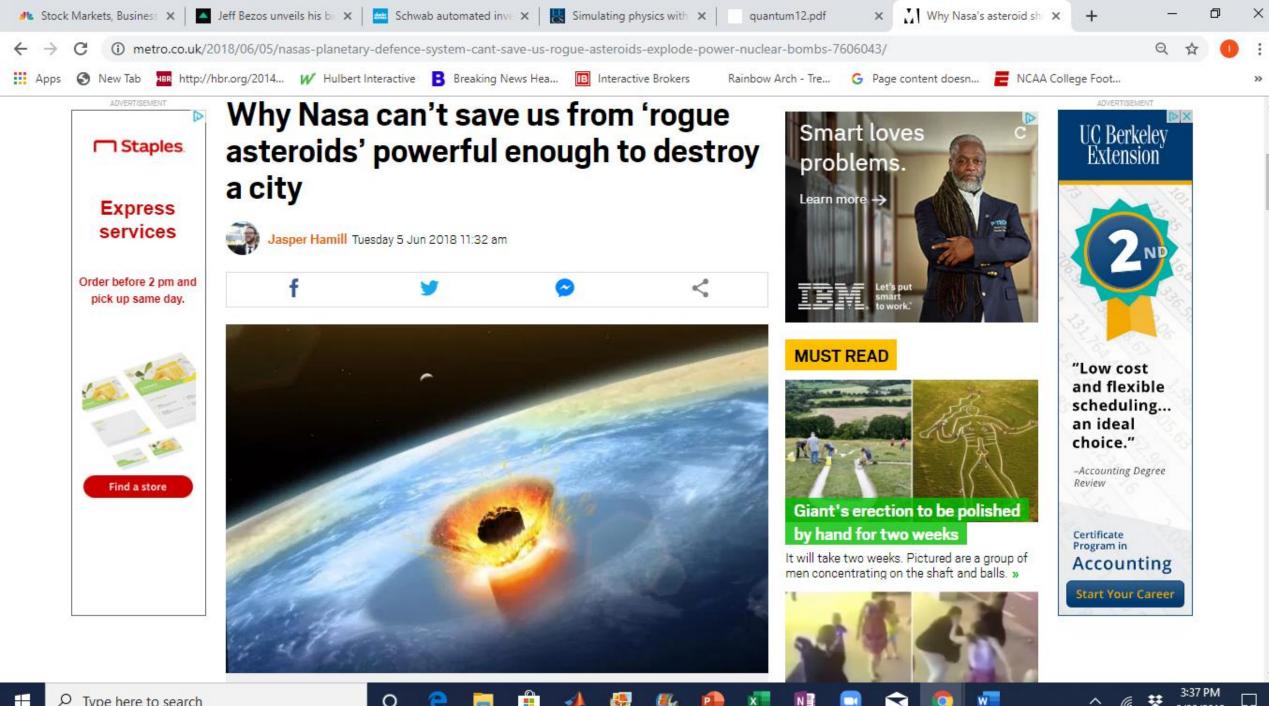
China Shatters "Spooky Action at a Distance" Record, Preps for Quantum Internet

June 15, 2017 — Lee Billings

PHYSICS Nil Communication: How to Send a Message without Sending Anything at All

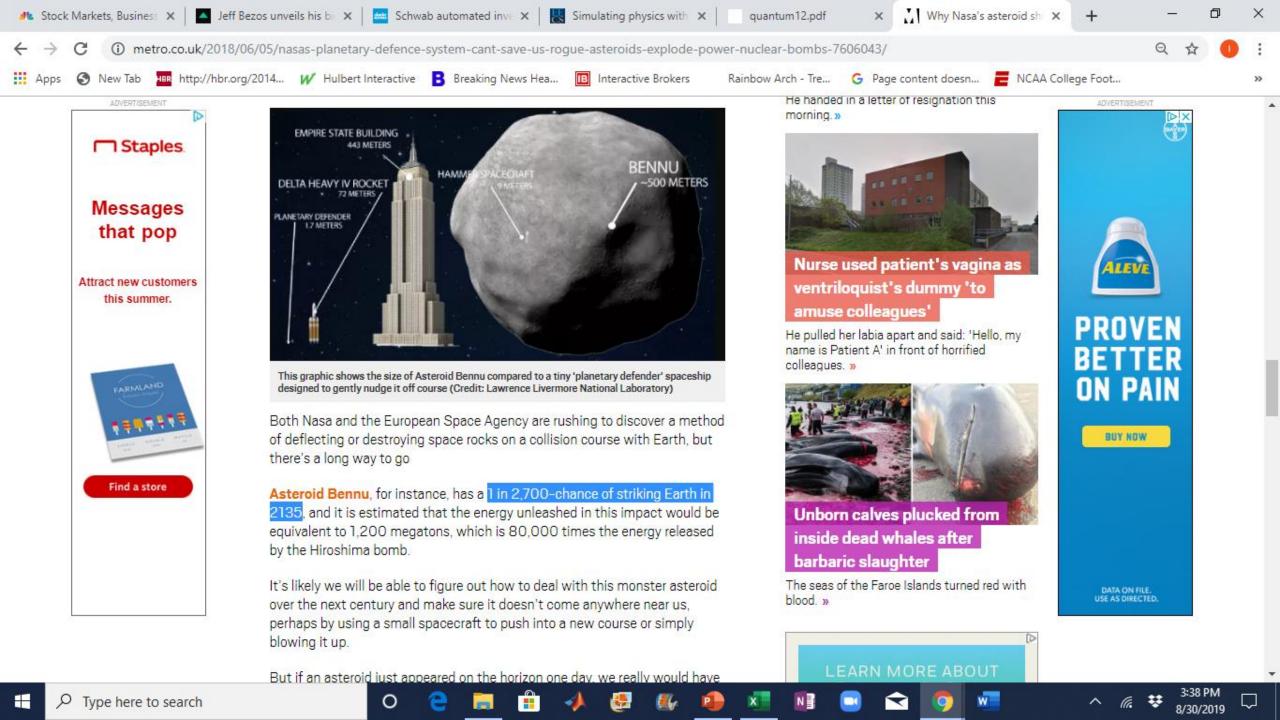
June 27, 2017 — Joshua Roebke

Credit: Olena Ostapenko Getty Images



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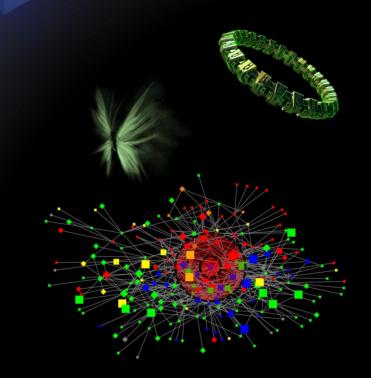
Al : QC – Feynman's Ideas*

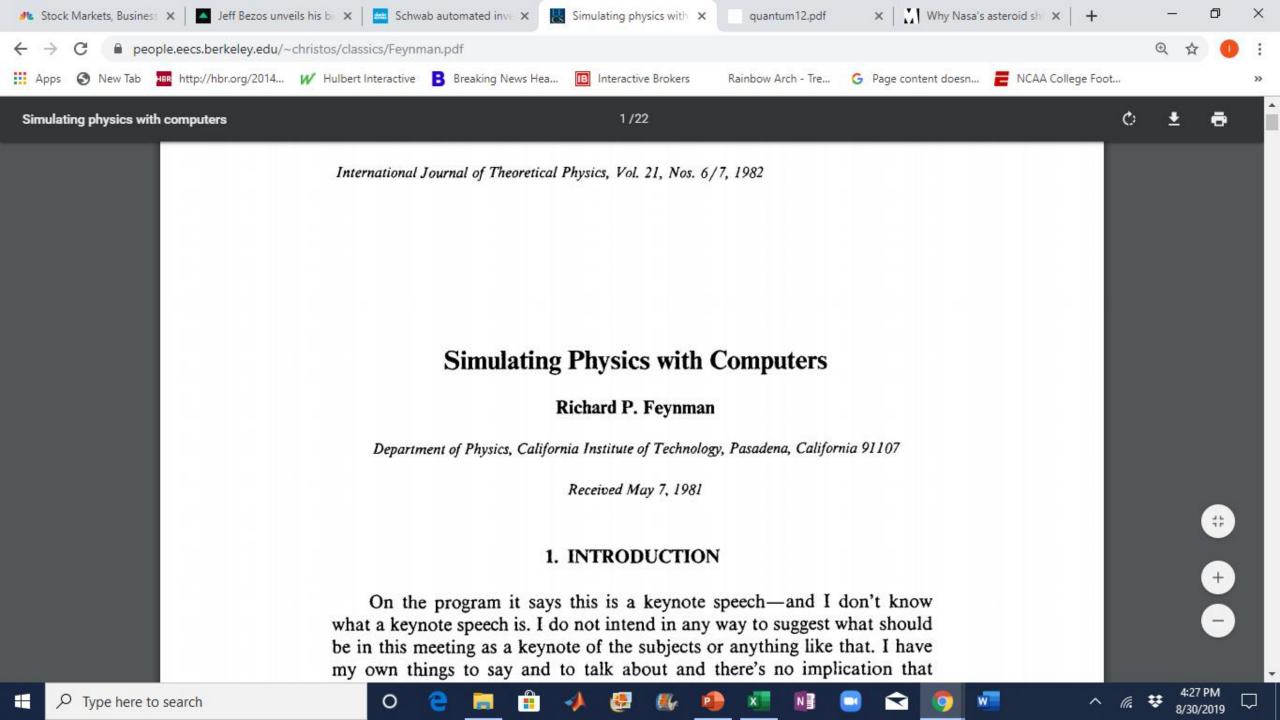
ISLEMMA-Chain-of-Keywords :

Quantum-Computing simulating Physical-Systems w/ Cellular-Automation for-building Quantum-Computers

Key-Ideas :

Deep-Learning Simulation-Function - ISLEMMA
Qubit in Quantum-Superposition Formation





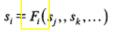


2. SIMULATING TIME

First I'd like to talk about simulating time. We're going to assume it's discrete. You know that we don't have infinite accuracy in physical measurements so time might be discrete on a scale of less than 10^{-27} sec. (You'd have to have it at least like to this to avoid clashes with experiment—but make it 10^{-41} sec. if you like, and then you've got us!)

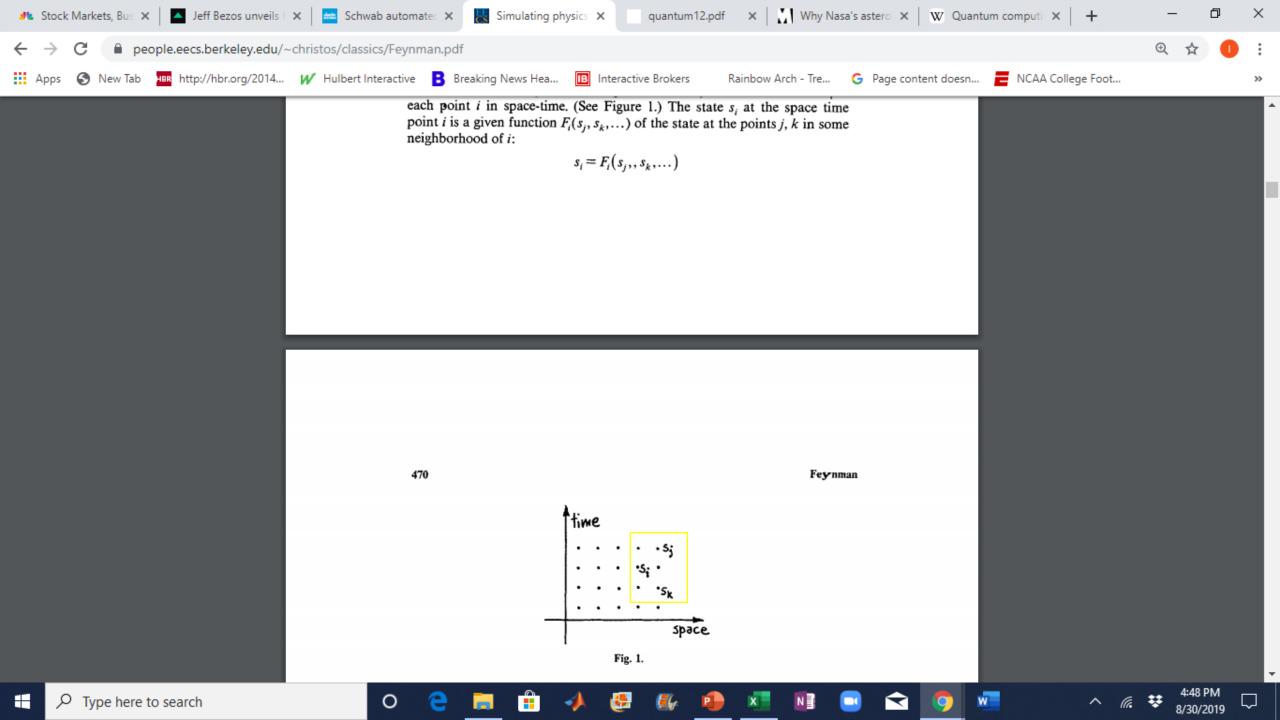
One way in which we simulate time—in cellular automata, for example —is to say that "the computer goes from state to state." But really, that's using intuition that involves the idea of time—you're going from state to state. And therefore the time (by the way, like the space in the case of cellular automata) is not simulated at all, it's imitated in the computer.

An interesting question comes up: "Is there a way of simulating it, rather than imitating it?" Well, there's a way of looking at the world that is called the space-time view, imagining that the points of space and time are all laid out, so to speak, ahead of time. And then we could say that a "computer" rule (now computer would be in quotes, because it's not the standard kind of computer which cperates in time) is: We have a state s_i at each point *i* in space-time. (See Figure 1.) The state s_i at the space time point *i* is a given function $F_i(s_j, s_k, ...)$ of the state at the points *j*, *k* in some neighborhood of *i*:



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Simulating Physics with Computers

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7. POLARIZATION OF PHOTONS-TWO-STATES SYSTEMS

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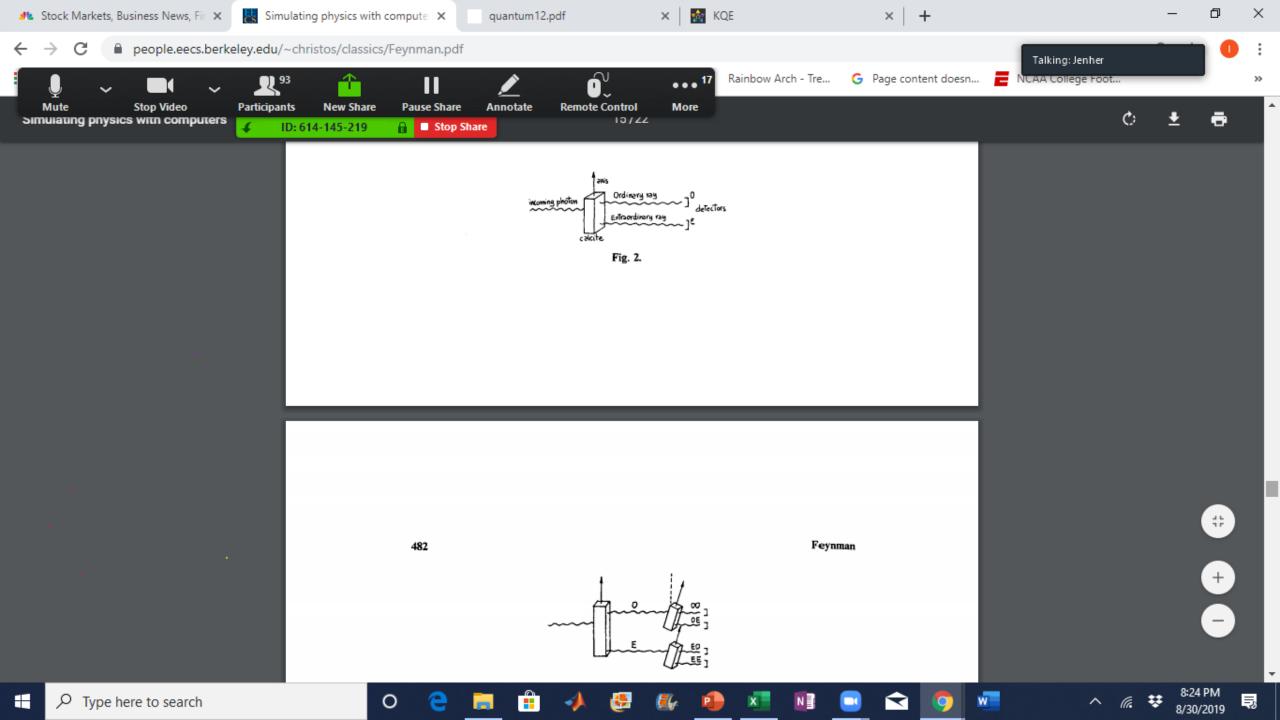
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I would like to show you why such minus signs cannot be avoided, or at least that you have some sort of difficulty. You probably have all heard this example of the Einstein-Podolsky-Rosen paradox, but I will explain this little example of a physical experiment which can be done, and which has been done, which does give the answers quantum theory predicts, and the answers are really right, there's no mistake, if you do the experiment, it actually comes out. And I'm going to use the example of polarizations of photons, which is an example of a two-state system. When a photon comes, you can say it's either x polarized or y polarized. You can find that out by putting in a piece of calcite, and the photon goes through the calcite either out in one direction, or out in another—actually slightly separated, and then you put in some mirrors, that's not important. You get two bearns, two places out, where the photon can go. (See Figure 2.)

If you put a polarized photon in, then it will go to one beam called the ordinary ray, or another, the extraordinary one. If you put detectors there you find that each photon that you put in, it either comes out in one or the other 100% of the time, and not half and half. You either find a photon in one or the other. The probability of finding it in the ordinary ray plus the probability of finding it in the extraordinary ray is always 1—you have to have that rule. That works. And further, it's never found at both detectors. (If you might have put two photons in, you could get that, but you cut the intensity down—it's a technical thing, you don't find them in both detectors.)

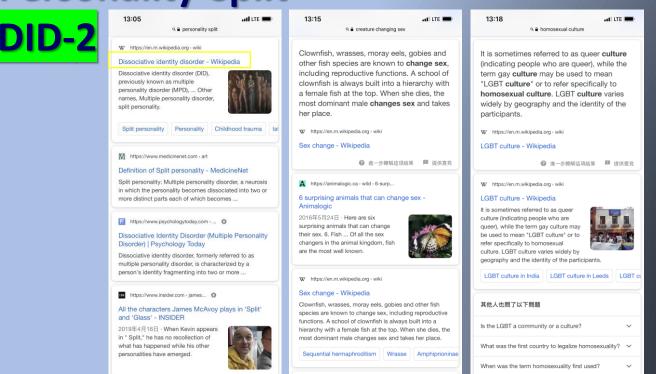
Now the next experiment: Separation into 4 polarized beams (see Figure 3). You put two calcites in a row so that their axes have a relative angle ϕ , I happen to have drawn the second calcite in two positions, but it doesn't make a difference if you use the same piece or not, as you care. Take

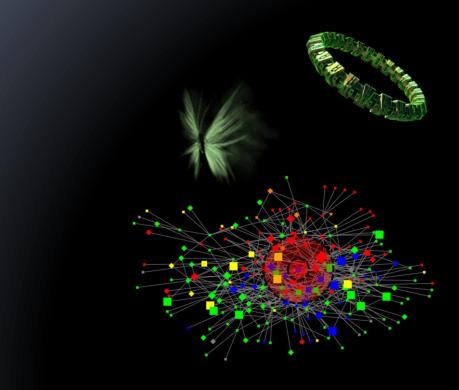


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Heuristic*-Example for Qubit vs Bit : Personality-Split





S-T-E-M-A

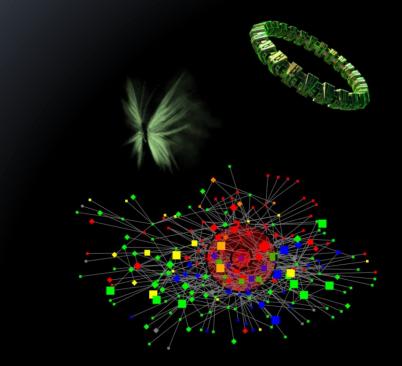
Cybernetic Transformation of Next Human Generation

STEAM : Math – Function/Superpoition

ISLEMMA-Chain-of-Keywords:

Asteroid-Shield-Mechanism-Engineering in Mathematical-Formulation from Step-Functions to Continuous-Function-in-Superposition-Theory as

Learn-by-Play-Motivation into Machine-Learning-&-Quantum-Computing



S-T-E-E-M-A

Cybernetic Transformation of Next Human Generation

WALEX Berkeley 2019 – LHS Class of Coding Nanosatellites

Asteroid Shield Challenge: Levels

- 1. Shield is open normally. Shield closes when an asteroid is near (distance <15).
- Shield is open normally. It closes halfway when an asteroid is near (distance between 15-40), then closes all the way when an asteroid is very near (distance <15).
- Shield is open normally. As an asteroid gets near, how much the shield closes is proportional to the distance of the asteroid.
- 4. Challenge yourself! How can you improve your asteroid shield? How can you optimize your code?



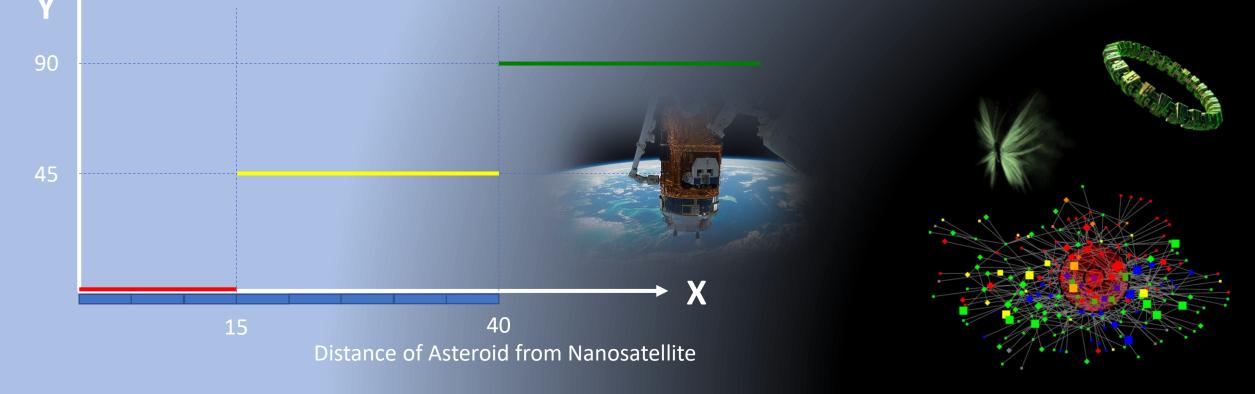


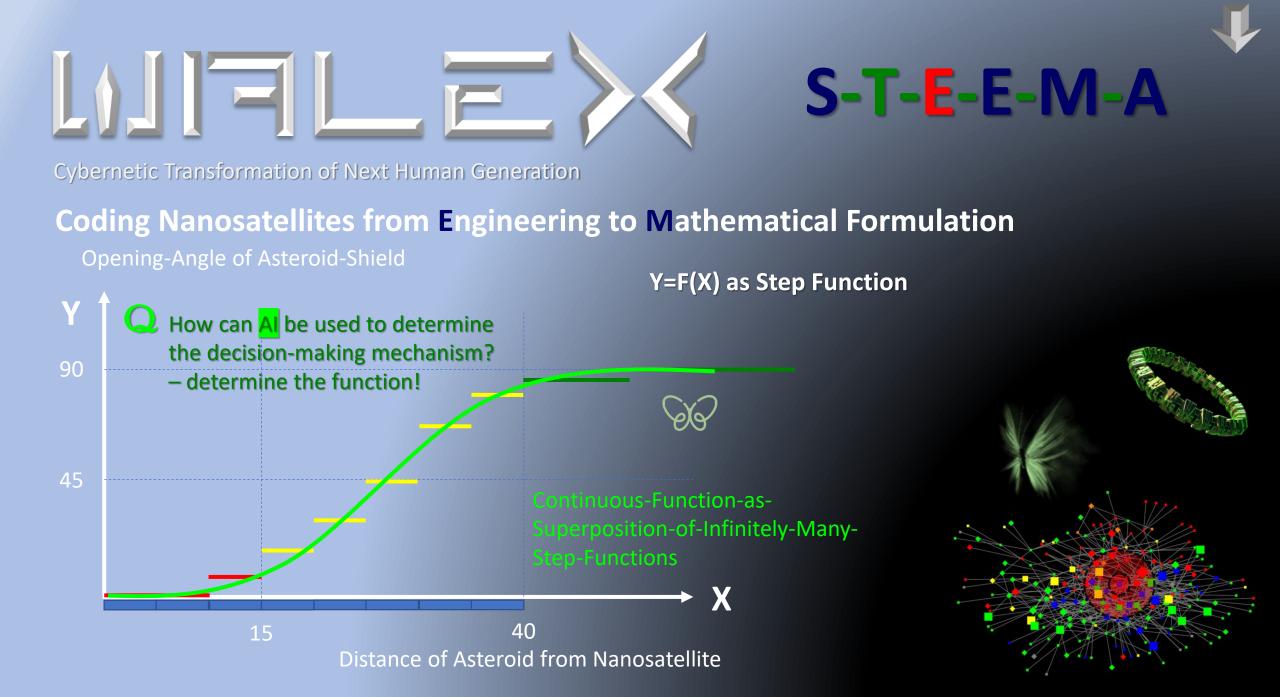
Cybernetic Transformation of Next Human Generation

Coding Nanosatellites from Engineering to Mathematical Formulation

Opening-Angle of Asteroid-Shield

Y=F(X) as Step Function





S-T-E-E-M-A

Cybernetic Transformation of Next Human Generation

Coding Nanosatellites from Engineering to Mathematical Formulation

Opening-Angle of Asteroid-Shield

Y=F(X) as Step Function

