The String Family

The week of August 1-5, 2022, **Niels Bohr International Academy** will host a follow-up scientific meeting to the Bohr-100 public events. The meeting will take place in the historic Auditorium A of the Niels Bohr Institute and, in keeping with the 100-year old tradition, there will be no fixed scientific topic.

The idea is to provide a <u>stimulating environment</u> with few talks per day, but plenty of time for <u>informal</u> discussions. A broad range of topics will be addressed.

Overview [edit]

The Institute was founded in 1921, as the Institute for Theoretical Physics of the University of Copenhagen, by the Danish theoretical physicist Niels Bohr, who had been on the staff of the University of Copenhagen since 1914, and who had been lobbying for its creation since his appointment as professor in 1916. On the 80th anniversary of Niels Bohr's birth – October 7, 1965 – the Institute officially became the Niels Bohr Institute.^[1] Much of its original funding came from the charitable foundation of the Carlsberg brewery, and later from the Rockefeller Foundation.^[2]



Practically every technology
we use today – from computers
to smartphones to lifesaving
medical devices – emerged from
breakthroughs in fundamental,
curiosity-driven physics.

Perimeter Institute for Theoretical Physics is an independent centre devoted to theoretical physics research, training, and outreach. Perimeter scientists pursue new breakthroughs in our understanding of the universe, from the smallest particle to the entire cosmos.

Their discoveries will make possible the next wave of transformative technologies and further humanity in ways we have only begun to imagine.

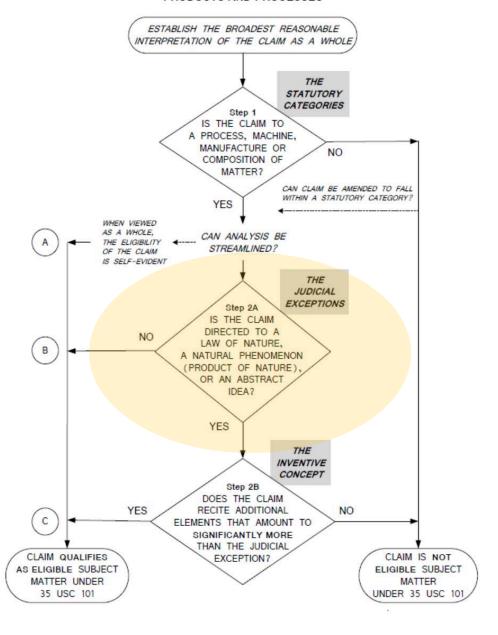
Why haven't we already <u>earned</u> the money it would take to endow us going forward?

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SUBJECT MATTER ELIGIBILITY TEST FOR PRODUCTS AND PROCESSES



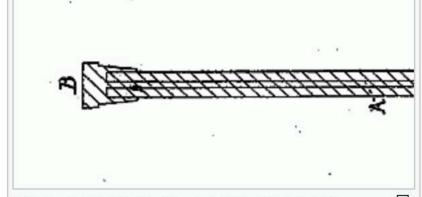
Rubber-Tip Pencil Co. v. Howard

From Wikipedia, the free encyclopedia

Rubber-Tip Pencil Co. v. Howard, 87 U.S. (20 Wall.) 498 (1874), is an 1874 decision of the United States

Supreme Court concerning the patent eligibility of abstract ideas. [1] As explained below in the Subsequent developments section, it is intermediate in the development of that aspect of patent law from Neilson v Harford, [2] through O'Reilly v. Morse, [3] to Funk Bros. Seed Co. v. Kalo Inoculant Co., [4] and then to Parker v. Flook, [5] Mayo Collaborative Servs. v. Prometheus Labs., Inc., [6] and Alice Corp. v. CLS Bank Int'l. [7]

The *Rubber-Tip Pencil* case has frequently been cited in the subsequent Supreme Court decisions concerning the patent eligibility of computer-related claimed inventions, such as *Alice Corp. v. CLS Bank*,^[8] *Diamond v. Diehr*,^[9] *Parker v. Flook*,^[10] and *Gottschalk v. Benson*,^[11]



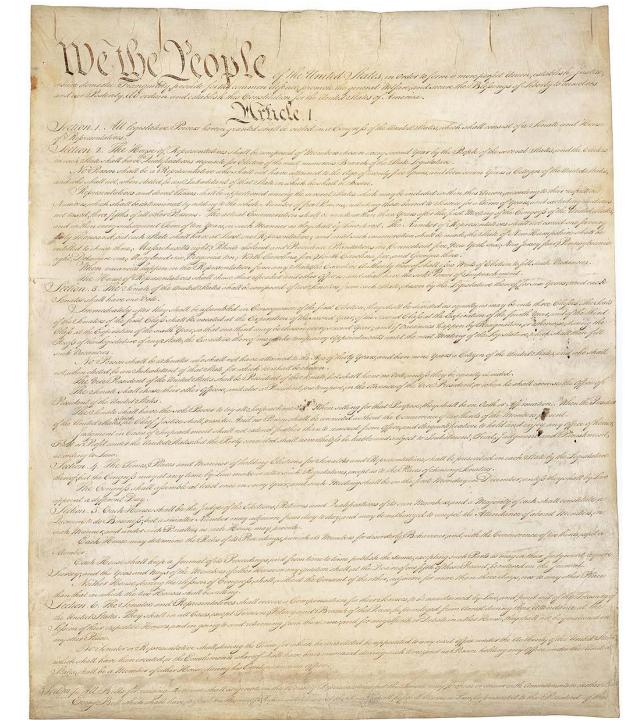
USA HB N

Cross-sectional drawing of rubber-tip pencil in patent on that product – U.S. Pat. No. 66,938. "A" designates pencil; "B" designates eraser.

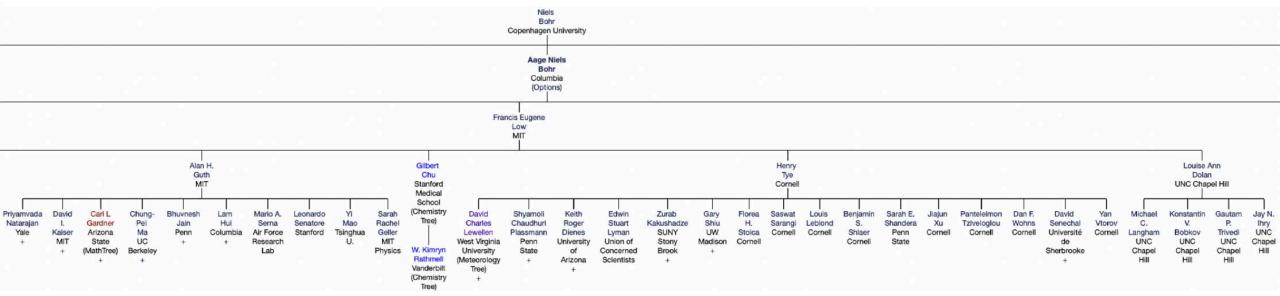
Article I Section 8

The Congress shall have Power...

To promote the Progress of Science and useful Arts, by securing for limited Times to Authors and Inventors the exclusive Right to their respective Writings and Discoveries;



What if our predecessors had secured that equity?



We're like a family in many respects

I'll know some of you for 50+ years!

We aren't too big

2.5k at virtual strings, maybe 5k in extended family, versus2.3M Walmart, 1.6M Amazon, 156k Alphabet, 110k Tesla, 12k Space X





• Is our identity really the institutions or what we study?

How long will you be at a given university vs in the field?

• Is our subfield a priority for the institutions we work for?

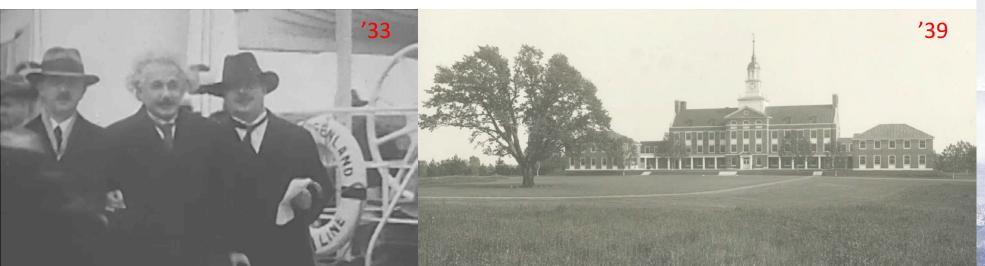
initiating faculty lines, overhead, transferring grants

The times have changed...

We appreciate the freedom vs research in a private lab

no borders, and no private interests dictating or using us

and can still learn from the university / institute system





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Can we endow our field?

step 1: alumni relations!!!!

• Brain drain + discrepancy in industry vs academic salary ≠ value

need to keep track of our alumni, be kind to them

We already have an annual conference that could be like a reunion

graduation ceremony at strings, local alumni 'string family lunch'

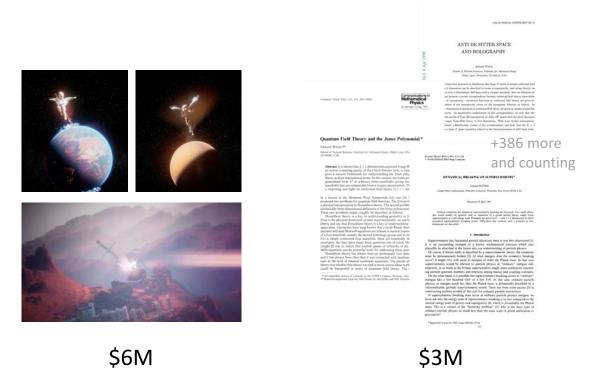
step 2: raise funds

Capitalize on the goodwill of our esteemed elders while we can
 NFTs as a new patronage market

 Create a natural beneficiary for pop-sci books / Hollywood advising / future patents;)

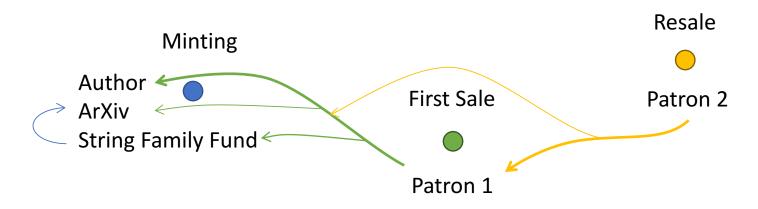
step 2: raise funds

NFTs as a new patronage market



step 2: raise funds

NFTs as a new patronage market



Comments: XX pages, X figures,

Subjects: **High Energy Physics - Theory (hep-th)**

Cite as: arXiv:22XX.XXXXXX [hep-th] for this version)

Patronage Identifier: (contract address, uint256 tokenId)

step 3: start small

- just another foundation = no backreaction
- 1/2 funded postdoc + match program

\$3M/year = \$50k/year x 3 years for 20 postdocs, decouple prestige and fit

• funding conferences, ArXiv, inspirehep...

5% of \$3M would 1/2-endow Strings conference + local matching



Are we making more work for ourselves? No!

Grant applications (hot topics hog funding), formal Journal vs effective peer review.

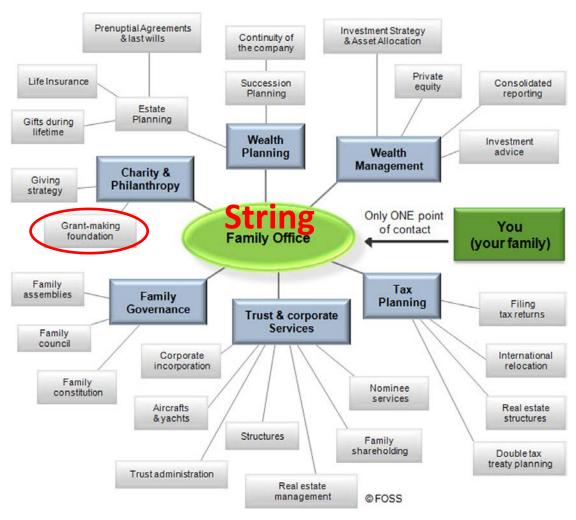
Would we get too big?

Not necessarily changing size if value associated to PhD, minting new ones dilutes.

Would we be too small?

Habilitation-like entry could be more inclusive. (Don't want to exclude Dyson!)

Given we're the 'String Family'...



... what would a HNWI do?

Role of for-profit family office?

reverse brain drain to manage endowment (hedge fund), invest in our start-ups

• Un-exiled ML/AI cousins can help us solve vote delegation + funding

allocation questions.

A different hierarchy problem!;)

- The younger generation missed out on the Superstring Revolutions :(
- But we can *decide* to have our own!

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held at the University of Toronto, Medical Sciences Auditorium --MS (map) King's College Circle

The Next Superstring Revolution Tuesday, July 12, 7:00 p.m. - 9:00 p.m.

RealPlayer Archive of Panel Discussion

The Second Superstring Revolution took place roughly ten years ago. Many feel the times are ripe for the next one. We have organized this session to explore, in an informal and interactive way, possible directions that may lead to major new progress in our field.

We have assembled a panel that represents a sample of the leaders in the subject. During the first half of the session, they will comment briefly on their views of these issues. During the second half, the audience will be invited to offer their ideas. The panel and the audience will be welcome to comment. With some luck a real discussion might start.

We are counting on you to come and actively participate!

Moderator: Steve Shenker (Stanford)

Panelists: Raphael Bousso (UC Berkeley) Shamit Kachru (SLAC & Stanford)

Ashok Sen (Harish-Chandra Research Institute)

Juan Maldacena (IAS, Princeton) Andrew Strominger (Harvard)

Joseph Polchinski (KITP & UC Santa Barbara)

Eva Silverstein (SLAC & Stanford) Nathan Seiberg (IAS, Princeton) Strings '05 in Toronto



We are part of a much older and more valuable tradition than any individual foundation or university.

We are a family.

We can and we should secure its future and control our destiny.

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StringFamily.org StringFamilyOffice.com