

# Popular Physics in History

*Correlating their contributions to Physics and collaborations with fellow physicists..*



## Team

**Wiki :**

<https://github.com/arcolife/popular-physics/wiki>

**Repository:**

<https://github.com/arcolife/popular-physics>

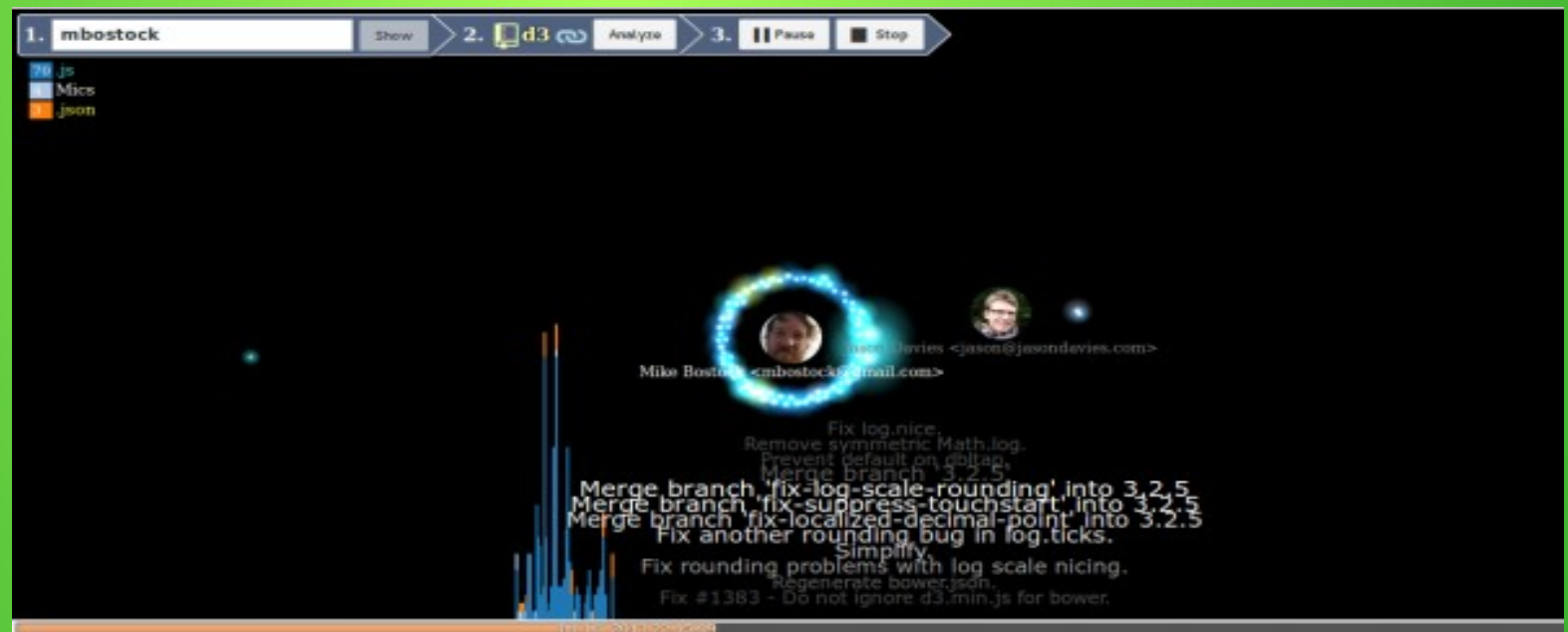
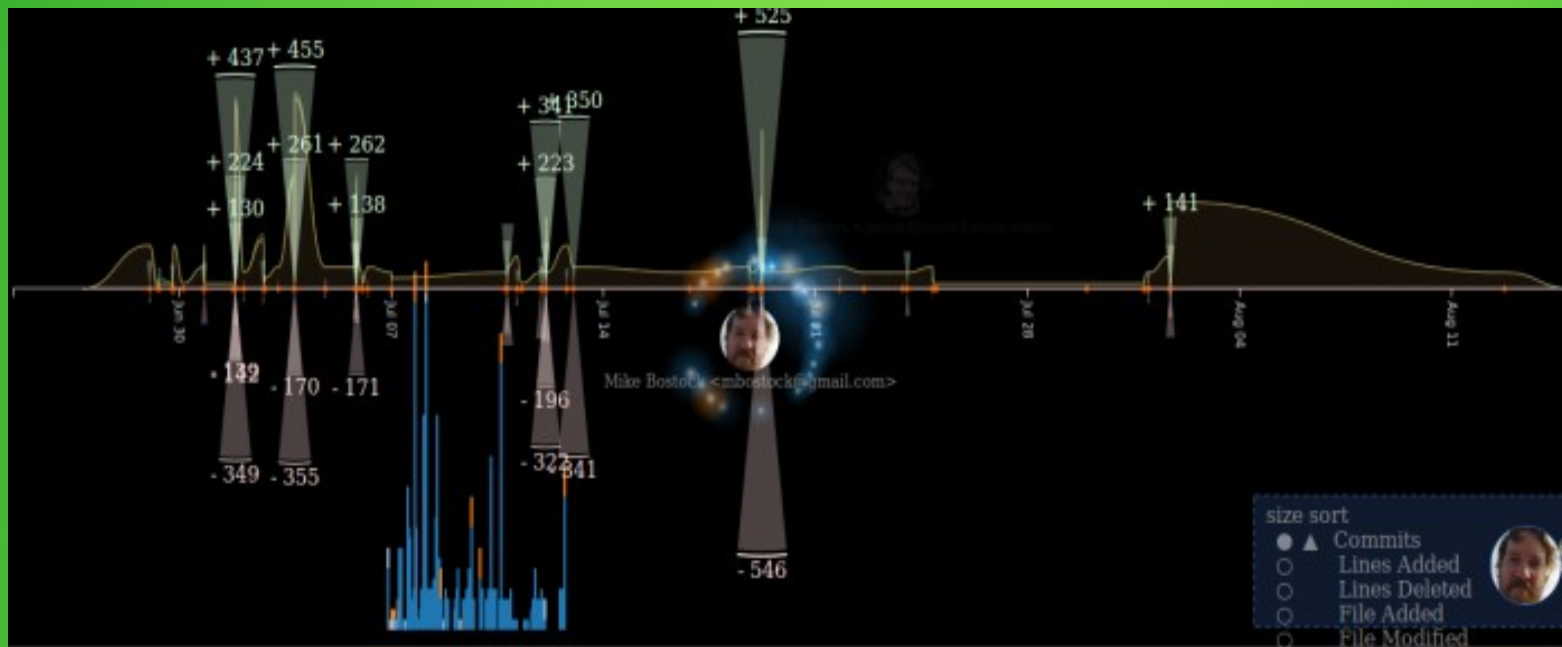
- Archit Sharma ( Twitter / @arcolife )
- Jian Nan Zhang ( FB / eric.j.zhang.5 )
- Marco Guerri ( FB / marco.guerri.39 )
- Xiaoli Zoe Chen ( FB / soyoungsogone )

So..

***we decided to correlate topics published by physicists over time, their contributions/collaborations with fellow physicists and their popularity as well as popularity of their work in subsequent years.***

**We wanted something like..**

This !



Credits:  /artzub

**However..**

**.. the final result was something like ..**

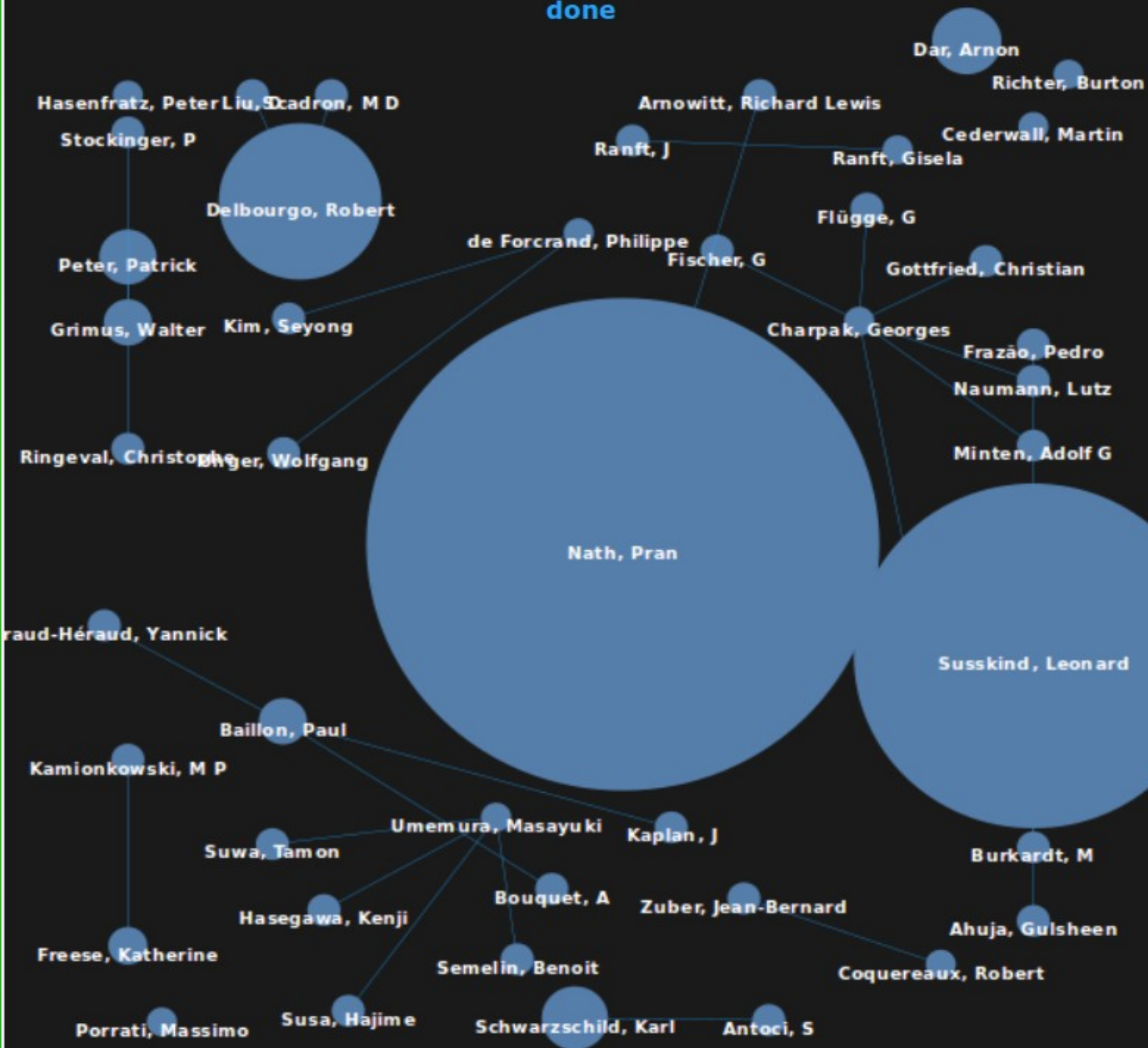
**Drum roll..Drum roll..Drum roll..Drum roll..Drum roll..**

**60% loaded...**

**Drum roll..Drum roll..Drum roll..Drum roll..Drum roll.. :P**



done



Nath, Pran

### Keywords:

- on
- scale
- LHC
- exchange
- leptonic
- decay
- weak
- two
- boson
- constraint
- mass
- enhancement
- correlation
- effect
- correction
- Higgs

TaaDAAA! This :D

## # A few bottlenecks#

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- x Taking a DB dump from CERN's Document Servers CDS and INSPIRE.
- x And moreover, converting them and uploading them to our own local instance.  
(So here is the # of documents we handled in 2 days: approximately 2 million. Yeah, 2,000,000)
- x Limited processing powers from normal Laptops and Desktop computers  
(ok. It was intel core i5 & i7 that we had , but still, processing those huge amounts, ..swamps even that kind of CPU! )
- x Keyword error investigation  
(Data redundancy / deficiency / non-uniform availability across all documents, issues! =.= )
- x Visualizing that kind of data – sifting through available visualizations, bringing them in proper format.
- x All over, it was the time, which gave us the goosebumps.



## =====

### ' Additional Information '

## -----

\*\* Primary metadata requirements are:

- ✓ Topic
- ✓ Author(s)
- ✓ Co-author(s)
- ✓ Abstract
- ✓ Citations
- ✓ Year
- ✓ References
- ✓ Top Cites, yearly distributed index(if possible)
- ✓ keywords list per record (if it exists?)
- ✓ A link to plain text downloads for all records

## ~~ FUTURE PLANS ~~

- To further enhance the quality of data sets and the visualization part as well.
- To add more visualizations and make it attractive, and set up a 'CrowdCrafting Project' to involve more people in the development process.
- If possible, put up a public interactive website, mobile/tablet apps out of this and help spread the word about Science (especially Physics)
- To think about its possible applications in various fields, for example: Journalism.

**Questions / Clarification?**

&

**Thank You !**

:)



 /arcolife/popular-physics