Let's go PhySH'ing

AAHEP, Cornell University

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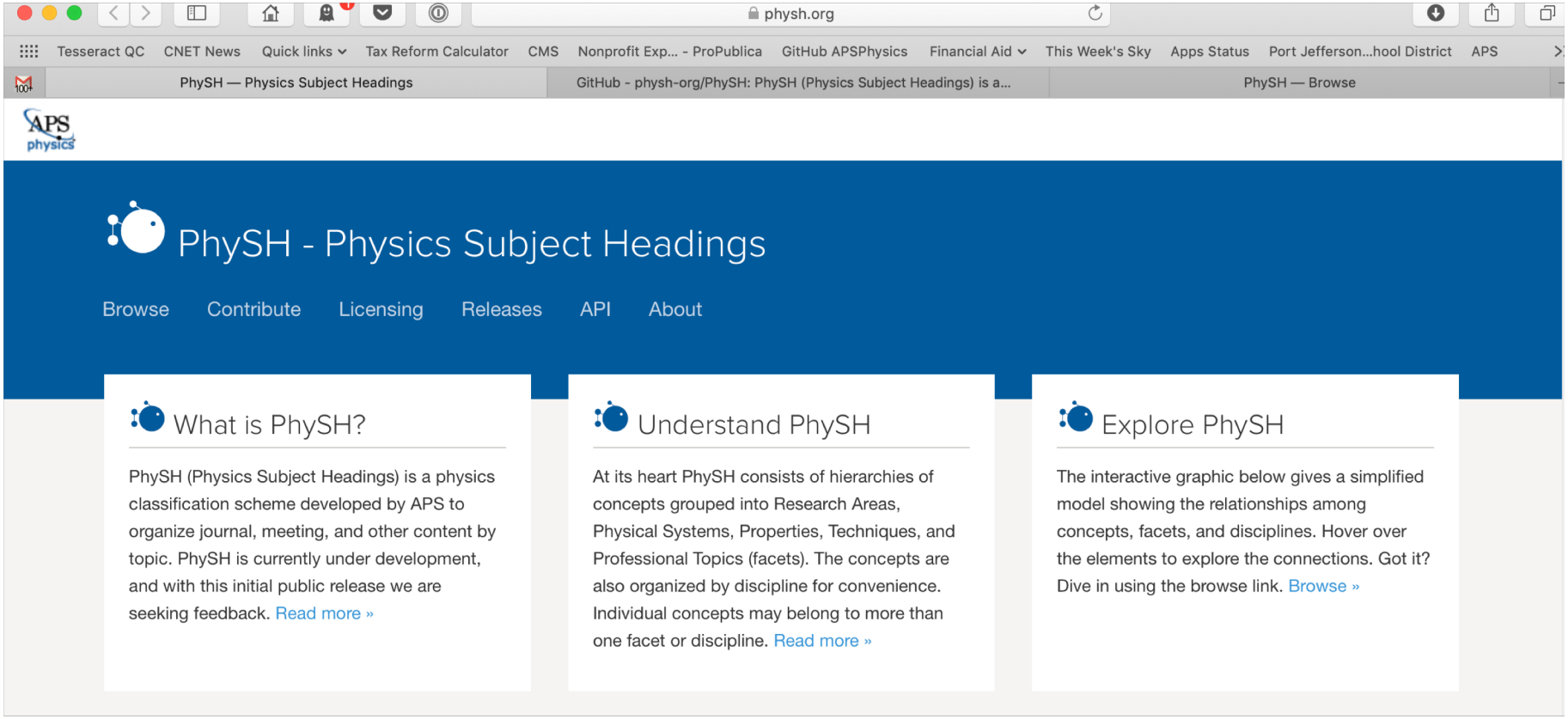
American Physical Society

PhySH – Physics Subject Headings

- Faceted taxonomy
  - Research Areas
  - Physical Systems
  - Properties
  - Techniques
  - Professional Topics
- Use 'Discplines' to provide cross-cutting view
- About 3200 concepts
- REST API for facets, discplines, concepts

What's New?

- Sept 2018: PhySH 1.0 released under CC0 license: https://physh.org and https://github.com/physh-org/PhySH
- DOI for each concept: https://doi.org/10.29172/<uuid>
- SKOS, TTL, RDF
- Open for collaboration/feedback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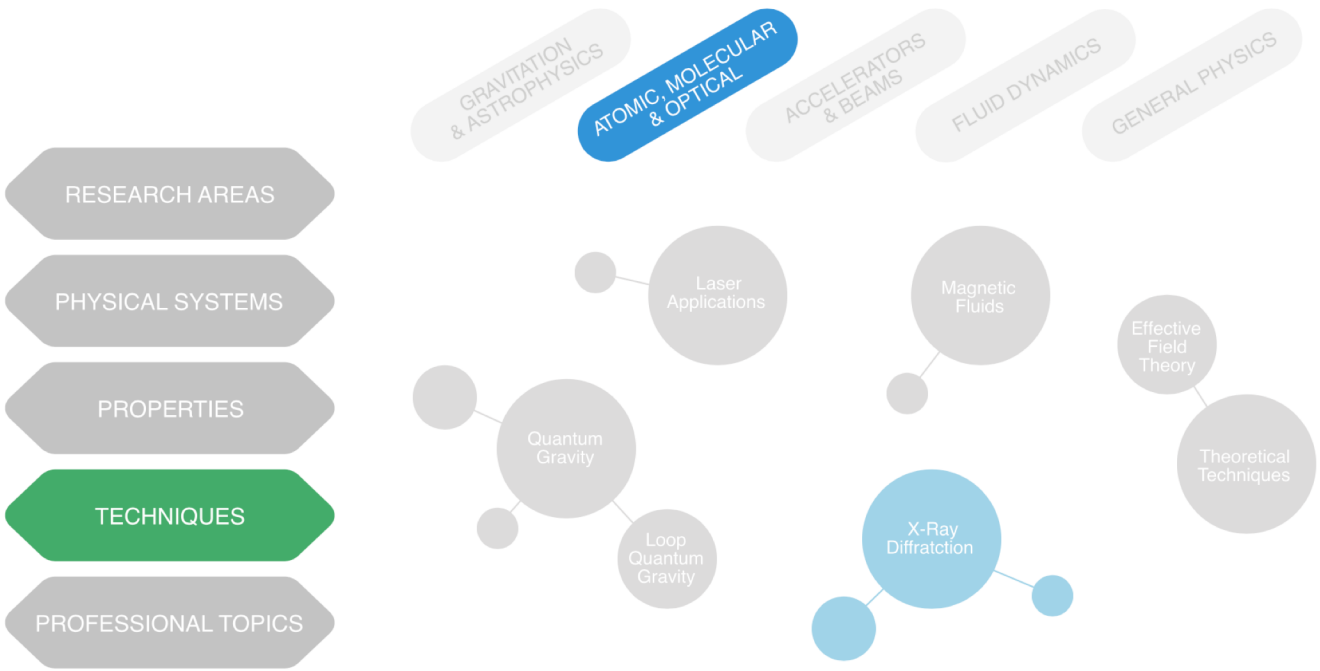
About
What is PhySH?
PhySH (Physics Subject Headings) is a physics classification scheme developed by APS to organize journal, meeting, and other content by topic. PhySH is currently under development, and with this initial public release we are seeking feedback. Read more »
Understand PhySH
At its heart PhySH consists of hierarchies of concepts grouped into Research Areas, Physical Systems, Properties, Techniques, and Professional Topics (facets). The concepts are also organized by discipline for convenience. Individual concepts may belong to more than one facet or discipline. Read more »
Explore PhySH
The interactive graphic below gives a simplified model showing the relationships among concepts, facets, and disciplines. Hover over the elements to explore the connections. Got it? Dive in using the browse link. Browse »

PhySH concepts are organized by facets and disciplines

More Detail



Browse PhySH

DISCIPLINES

- [x] Accelerators & Beams
- [ ] Atomic, Molecular & Optical
- [ ] Biological Physics
- [ ] Condensed Matter & Materials Physics
- [ ] Fluid Dynamics
- [ ] General Physics
- [x] Gravitation, Cosmology & Astrophysics
- [ ] Interdisciplinary Physics
- [ ] Networks
- [ ] Nonlinear Dynamics
- [ ] Nuclear Physics
- [x] Particles & Fields
- [ ] Physics Education Research
- [ ] Plasma Physics
- [ ] Polymers & Soft Matter
- [ ] Quantum Information
- [ ] Statistical Physics

SHOW MORE

- [ ] Include all related concepts
- [ ] Include all narrower concepts

Search ×

Research Areas | Physical Systems | Properties | Techniques | Professional Topics | All

Beam dynamics
Show 11 Narrower

Beam techniques
Show 7 Narrower

Cosmic rays & astroparticles
Show 7 Narrower

Cosmology
Show 14 Narrower

Cryogenics & vacuum technology
Show 2 Narrower

Electromagnetic field calculations
Show 2 Narrower

Electromagnetic radiation astronomy
Show 6 Narrower

Electroweak interaction
Show 4 Narrower

Formation & evolution of stars & galaxies

Gravitation
Show 7 Narrower

Hydrostatic stellar nucleosynthesis
Show 2 Narrower

Hypothetical particle physics models
Show 7 Narrower

Particle astrophysics
Show 3 Narrower

Particle phenomena
Show 4 Narrower

Quantum field theory
Show 34 Narrower

Radio frequency techniques
Show 4 Narrower

Strings & branes
Show 6 Narrower

Strong interaction
Show 5 Narrower

Transient & explosive astronomical phenomena
Show 4 Narrower

What's Next?

- Full searching by PhySH on APS journal platform
- Subject-based, cross-journal browsing
- Ongoing cycle of review
  - Fluid Dynamics currently under review
- GraphQL API
- Open to partnerships and collaborations on specific areas