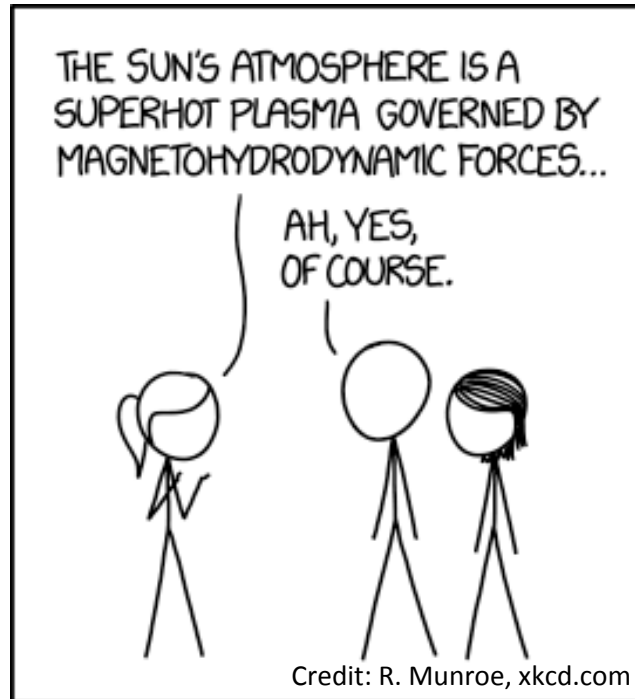


Welcome to the NSF CEDAR* Workshop!

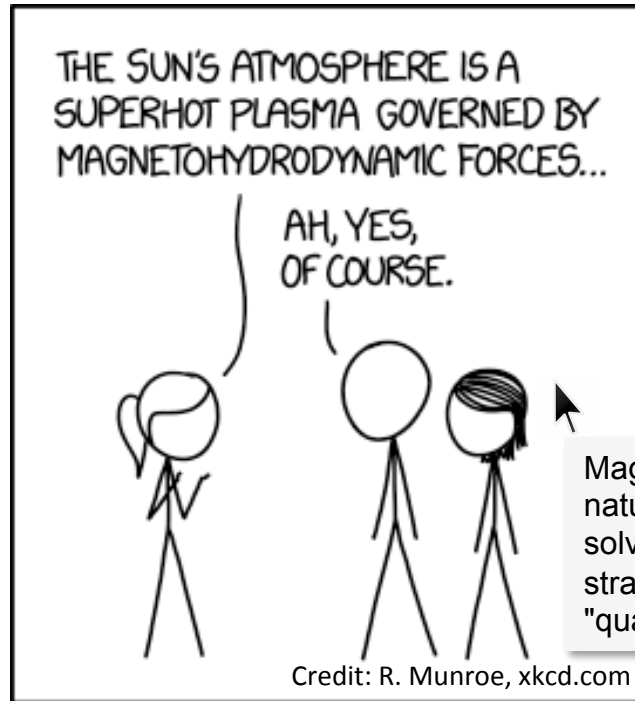


WHENEVER I HEAR THE WORD
"MAGNETOHYDRODYNAMIC" MY BRAIN
JUST REPLACES IT WITH "MAGIC."

Seebany Datta-Barua, Illinois Institute of Technology

* Coupling, Energetics, and Dynamics of Atmospheric Regions

Welcome to the NSF CEDAR* Workshop!



Magnetohydrodynamics combines the intuitive nature of Maxwell's equations with the easy solvability of the Navier-Stokes equations. It's so straightforward physicists add "relativistic" or "quantum" just to keep it from getting boring.

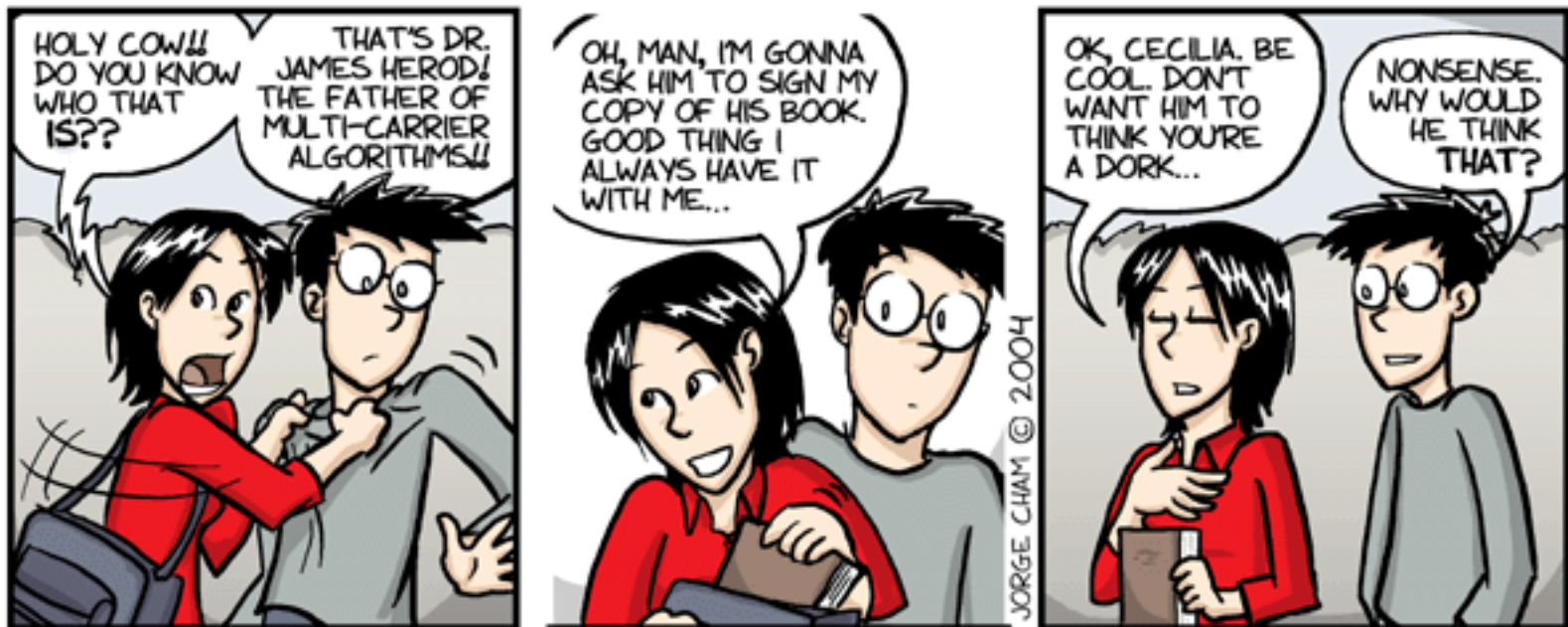
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CEDAR is...

- a broad-based, community-guided, upper atmospheric research program.
 - National Science Foundation
 - Researchers from academia, government, and industry
 - Students: next generation of researchers and leaders (*that's you!*)



Community-guided

- Grassroots input through the CEDAR Science Steering Committee (CSSC)
 - Members represent many institutions, atmospheric regions, scientific approaches
 - Student representatives on the CSSC
- CEDAR has a strong dedication to and inclusion of students – since it started in 1985
 - Science community's strength in diversity

Science as a framework (maybe revolutionary even today)



Image adapted from *Hamilton, an American Musical*

CEDAR Workshop checklist*:

- Develop a sense of community
- Develop transferrable skills for the changing marketplace
- Have total access to researchers in your field
- Have the opportunity to present your research at various stages of your graduate career
- Recognize you are essential for the future direction of CEDAR

*With thanks to Jeff Thayer

CEDAR Student Representatives

- Meghan Burleigh
 - Engineering Physics, Embry-Riddle Aeronautical University, Florida
 - High-latitude ionospheric modeling
- Lindsay Goodwin (immediate past)
 - Physics, University of Saskatchewan
 - High-latitude ion velocity distributions
- Victoriya Forsythe (in absentia)
 - Ph.D. 2017, Space Physics, University of Alaska Fairbanks
 - Continuing as a postdoc

Have a great CEDAR 2017!