

COUUP R&D Review Charge

Dec 10, 2008

R&D for HEP experiments in the US will have high priority for the next 5-10 years as we work to define the next generations of experiments that will push the boundaries of our knowledge in the energy, intensity, and cosmic frontiers. To that end, Fermilab needs to have a well focused program of detector R&D so that the directions taken are appropriate, understood, and supported. PPD is planning a series of mini-workshops to review the status, progress, and prospects for all known R&D efforts in the division. For your R&D, we would like to have a series of talks covering:

- Dark Matter Overview: (including COUUP's role)
- What R&D has been done and what has been achieved with the small detectors.
- What is the R&D is yet to be done and why is important that it be supported?
- What are the prospects for this technology in larger detectors in the future?
Include engineering issues, DAQ, siting, and required resources for COUUP 500.
- At what point would R&D transition to detector specific or project work?
- What is the level of financial and personnel resources needed for the next year and in the longer term?

The plan is to have a half-day mini-review whose outcome is a short report to the Division head covering the above questions. Please suggest an agenda with 2-3 hours of talks, including breaks, which address the above questions.

Bob Kephart will chair the review. Other reviewers are: Rich Stanek, Fritz DeJongh, Eric Estrada. The review will be open to interested scientists at the lab and user community as well. Your research efforts are vital to the labs future, and we look forward to a very interesting and productive review.