PPD Review,
Fermilab,
August 2, 2010

TOTAL ABSORPTION CALORIMETRY R&D

Budget, Resources, etc…

- Depend very much on a decision about the scope of the project
- Manpower a critical resource, need to strengthen the group
- Major resources necessary to form a viable wide collaboration
- Investment in the material development may enable huge cost saving for the construction of a large prototype.
- Several parallel efforts: separate or combined accounting?

A Sensible(?) Request (per year) for the Next Two Years

- Software/Computing
  - 2 FTE's, Grid computing, 5 Tbytes of disk space, MCNPX
- Calorimetric Prototyping:
  - Crystals, glasses $30K
  - Photodetectors $20K
  - Lab equipment $50K
  - Tech's/shop 2 FTE's
  - Lab space, dark boxes..
- Readout electronics
  - M&S 50K
  - Technicians 1 .5 FTE
  - Engineers 1 FTE

- Materials development (this is in addition to the resources dedicated by the vendors themselves)
  - SICCAS (doping of PbF_2, modification of furnaces, BSO investigation) $150K
  - Other vendors/institutions $100K
- Collaboration: support for visitors, travel, conferences $100K
- Test beam (4 weeks/year)

- TOTAL $500K, 5.5FTE technicians, 1 FTE Engineer