



# MINERvA's Recruiting Status

- Does MINERvA attract enough post-docs and Fellows?
  - The number of post-docs on MINERvA has increased by 4 over the past year:
    - W&M, UT-Austin, Northwestern, Fermilab
  - Other institutions maintaining their post-doc levels
- Are there international visitors or sufficient participation from abroad on the new projects?
  - One new foreign institution on MINERvA in the past year (University of Santa Maria from Chile)
  - MINERvA benefits from strong Latin American visitor program (long term (>6 month) visits for ~5 students, 1 post-doc, and 2-month stays for several faculty)

# Recent FNAL MINERvA group Activities (FTE Fractions, from Newest to Oldest)

- Expected Totals: 4.85/4.45 FTE in FY10/FY11
- Jyotsna Osta (100%/100%)—post-doc, commissioning, calibrating test beam detector and data taking, analysis
- Ray Stefanski (60%/75%)— Test beam design, survey and magnetic field checks, shift coordinator after 2/10
- Dave Schmitz (100/100%)—Lederman Fellow, code releaser, Reconstruction coordinator, co-Run Coord. until 7/10
- Dave Boehnlein (50%/0%)—Shift coordinator until 2/10, project documentation coordinator
- Debbie Harris (95%/95%)—co-spokesperson as of 2/10, MINERvA project manager
- Jorge Morfin (80%/75%)—co-spokesperson until 2/10, test beam, nuclear targets, Latin American Visitor Program

# Budgeted vs Actual Effort Reported Fermilab Physicist Labor in FY10, FY11 projection

Budget	Research Associate	Scientist	Total
FY10	0.9	2.5	3.4
FY11	2.0	2.8	4.8

Actual / expected Effort	Research Associate	Scientist	Total
FY10	2.0	2.85	4.85
FY11	2.0	2.45	4.45

FY11 budget “caught up” with FY10 actuals, based on post-doc joining group in FY10. Still recruiting FNAL post-docs

# Computing Support of MINERvA

- Fermilab is transitioning to a model of coordinated support across Intensity Frontier
  - An ongoing transition doesn't help an operating experiment like MINERvA the way it does a future expt
  - Have had long term (since 2006) unmet request for MINERvA CD support coordinator
    - MINOS has 2 full-time CD people doing this job for them
  - This has slowed down progress
    - For example, scaling from 32 cores to the grid has caused database contention problems. Joint effort by Roch / USM / NU / FNAL is close to solving this
- Rick Snider, CD Physicist on CDF, is strongly considering joining MINERvA for FY11
  - But not clear how much FTE, FY12 even less certain
- FY11 budget exercise has intensity frontier disk and CPU cut by  $\geq 50\%$ , including MINERvA

# Current plan for FY11 Computing Hardware for MINERvA

- Cut Disk Space request by 50%
  - This will limit MINERvA's ability to have more Monte Carlo statistics than Data statistics
  - Risk in putting data only on tape, delays in processing
  - **Example of Mitigation: dCache, but integration with our production and user analysis most efficiently done by CD personnel who have not been assigned to us**
- Cut Interactive CPU by 50%
  - MINERvA has more people working on analyses than Interactive cores in Fermilab cluster
  - Lots of data now, huge increase in analysis activity
  - Lack of Interactive CPU already hobbles MINERvA's ability to do real time event processing and keep up with data monitoring

# Summary, Personnel

- MINERvA collaboration has a working detector and beam and people excited to do the physics
  - Recent strengthening of the core of post-docs and most are resident at Fermilab where the action is
  - Recent DOE OHEP and NSF NP travel supplements to University groups very helpful in maintaining contact between the FNAL resident core and the rest of the collaboration
  - Presented first data/monte carlo distributions at ICHEP from antineutrino data taken in late 2009

# Summary, Computing

- Computing Support remains a concern
  - We are getting substantially more help than in years past but we are still catching up while the data is rolling in
  - Still have our core of postdocs and students too heavily taxed working on computing infrastructure tasks which could be more efficiently done with better FNAL/CD support
  - Dedicated coordinator would help to make best use of resources available at Fermilab