

# BUCKY parameter sweeps using Condor – a powerful analysis tool

*Milad Fatenejad, Paul Wilson,  
Gregory Moses*

Fusion Technology Institute  
University of Wisconsin-Madison  
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# Grid computing with Condor utilizes idle computers over the Internet

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- Condor schedules jobs on idle computers in a Condor flock and returns results to the user's computer
- Condor is supported by the NSF PACI program, ITR program and Middleware initiative and the University of Wisconsin
- Condor is extensively used in many computational science communities including high energy physics



# BUCKY/Condor is a new analysis tool for HAPL program

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- Uncertainty analysis or parameter sweeps
  - *BUCKY is the kernel for “meta” analysis*
- Rapid turnaround
  - *1000 runs overnight*
- Automated problem setup
  - *One “proto-deck” and parameter ranges*
- College of Engineering Condor flock
  - *450 workstations in student labs*
  - *FTI Linux cluster (16 / 56 processors)*



