



iVDGL Planning Meeting

iVDGL
Albert Lazzarini
09 January 2002
University of Florida



LIGO

LIGO Scientific Collaboration (LSC) iVDGL Participation

- University of Wisconsin at Milwaukee
 - » 4 investigators (not funded by iVDGL) + new hires
- The Pennsylvania State University
 - » 1 investigator (not funded by iVDGL) + new hires
- Caltech
 - » 2 investigators (not funded by iVDGL)



LIGO Scientific Collaboration (LSC) iVDGL Plan

- iVDGL Organization Working Group Participation
 - » Management Definition Group (A. Lazzarini)
 - » Facilities Team (Co-leader: B. Allen, UWM)
 - » Software Integration Team (Co-leader: S. Koranda, UWM)
 - » Applications Team (Co-leader: L.S. Finn)



LIGO Scientific Collaboration (LSC) iVDGL Plan

- Two Tier 2 centers
 - » University of Wisconsin Milwaukee
 - Builds on existing 290 node cluster funded through previous NSF MRI grant
 - 0.2 FTE for IT support (+ existing FTE support)
 - 2 FTE for Applications integration: GRAs+Postdocs
 - 1 PPARC Fellow for CS support
 - » Pennsylvania State University
 - New Physics Frontier Center for Phenomenological Gravitational Wave Data Analysis
 - New Tier 2 center
 - 0.2 FTE for IT support (+ PSU contributed IT FTE support)
 - 2 FTE for Applications integration: GRAs+Postdocs
 - 1 PPARC Fellow for CS support
- 0 FTEs presently hired



LIGO Scientific Collaboration (LSC) iVDGL Plan

- LSC Tier 2 centers will be used for:
 - » Data mirror for key datasets to offload LIGO Laboratory Tier 1 center
 - » Grid-based analysis of LIGO data for computationally intensive searches
 - Augments LIGO Laboratory capabilities
 - Used for tasks requiring either LDAS MPI-based analysis or Condor-G asynchronous jobs
 - » Algorithm validation/testing on data subsets prior to production
 - » Monte Carlo simulations
 - » Targets of next implementation of LIGO-GriphyN Apps after Super Computing Conference demonstration projects
- Will participate in iVDGL/iGOC activities as requested



LIGO Scientific Collaboration (LSC) iVDGL Plan

- Concerns
 - » LSC participation in grid activities is still small but growing:
 - Collaboration needs to define internal plan for Tier 2 center usage, resource allocations, etc.
 - Grid computing requirements not defined by the collaboration -- needed before PSU Tier 2 center is started and additional UWM resources installed
 - » LSC needs CS support of 2 PPARC Fellows - one per site
 - There are no FTEs within LIGO dedicated to grid computing implementation
 - Support at Tier 2 centers for the deployment of grid tools and their integration/interfaces to the existing LIGO software suite (LDAS)
- LSC has formed a Computing Committee to address collaboration issues
 - » Representation by LIGO Lab., Tier 2 ctrs & user institutions
 - » First meeting scheduled for 15 January 2002 - establish agenda, priorities, long range planning