Gran Sasso National Laboratory
Gran Sasso National Laboratory

- Largest underground science laboratory in the world
- Three main halls 15-20x100 m² - 17,300 m² total surface
- 1400 m vertical rock coverage
- Horizontal access trough highway tunnel
- 150 km from Rome international airport

- Surface facilities: mounting hall, workshops, auditorium, conference rooms, canteen, offices

- Run by ~90 staff personnel

- International Scientific Committee acts as advisory committee for LNGS Director
Research activities

- Neutrino physics (OPERA, BOREXINO, ICARUS, LVD, GERDA, CUORE, COBRA)
- Dark matter (DAMA/LIBRA, DARKSIDE, XENON, CRESST)
- Nuclear reactions of astrophysics interest (LUNA)
- Fundamental Physics (VIP)
- Geophysics
- Biology

Gran Sasso National Laboratory

- Opening: 1987
- 1400 m rock coverage
- Muon flux = $3.0 \times 10^{-4}$ s$^{-1}$ m$^{-2}$
- Experimental Area = 3 halls for about 17300 m$^2$
- Access: horizontal through the express way tunnel
Hall b - present status

- Warp decommissioning: to be completed by June 1\textsuperscript{st} 2013
- Icarus decommissioning: June 2013 -> October 2014
Hall C – present status

Opera decommissioning: start mid/end 2014 + 18 months
Summary - I

• HALL B:
  • Warp location available by 2\textsuperscript{nd} half 2013 – 20 m
  • Icarus location available by 4\textsuperscript{th} quarter 2014 -> 70 m (14.8 m wide)

• HALL C:
  • Opera location available ~ early 2016 (start of Opera decommissioning is being discussed)
Summary - II

• Proposals for next generation DBD and Dark Matter searches are encouraged
• Plenty of space is being made available for them
• US participation/initiatives are highly welcome

• Space allocation
  i. Informal contact with LNGS director
  ii. LOI – not binding
  iii. Proposal to LNGS SC