

# LZ MC Status

Monica Pangilinan  
May 10, 2012

- installed Geant 4.9.5p01 onto cluster with patch properly installed
- tested patch being used with 0.6 MeV neutron simulations:
  - Boron:  $\text{Li7}[0.0]$  produced
  - Copper: no  $\text{Cu62}[0.0]$  production
- LUXSim edited for compatibility with Geant 4.9.5p01
- Running the 1 million muons Chao generated with MUSUN in 34 m x 34 m x 34m rock with 20m x 20m x 20m cavern with LZ20 in the center
- so far have run 12,981 events after 12 hrs of running -> 38 days to finish entire data set
  - investigating why it is taking so long
- can have preliminary analysis of events run by next week