

# LZ UK Data Centre Summary Slide

- The LZ dark matter experiment located in Sanford/South Dakota will have two dedicated data centres that hold a complete copy of their data.
- These data centres are located at NERSC (US) and Imperial College (UK).
- Unlike the centralized approach taken by the US data centre, the UK data centre has been fully integrated into the Grid computing resources provided by GridPP (a collaboration of 19 UK universities):
  - Storage is provided by Imperial College
    - Access via srm and xrootd
  - CPU is provided by different sites (including Imperial) by the GridPP collaboration.
- The LZ experiment has so far undertaken two Mock Data Challenges.
- The UK data centre has performed well in the challenges, showing the value of extending an established system (grid computing) to non-HEP communities:
  - For this purpose Imperial College developed a custom web submission interface:
    - This hides the underlying complexity of the Grid to the end user.
    - It \*only\* provides information relevant to the LZ experiment.
    - We think the “one size does not fit all” approach in the last step before reaching the user is the key for increasing the reach of any kind of distributed computing.