



# LUXE

## Status of ISS involvement in LUXE experiment

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## **Manpower involve in ECAL-LUXE group:**

- 3 physicist researchers – myself, Alina Neagu and Mihai Potlog;
- They are involve in test-beam data taken and test-beam data analysis;
- MC geant4 simulations for the EM calorimeters;
- Computing resources for data storage and data analysis.

## **Funding resources:**

- No dedicated funding available;

**ISS – designed and installed a dedicated server for ECAL-LUXE group;**

Actual configuration:

- CPU model/make: AMD EPYC 7713P 64-Core Processor
- CPU Core: 64
- Thread per core: 2
- Total threads: 128
- Total memory: 258 GB
- Storage : 6 x 12 TB drives in RAID6
- Total storage: 44 TB
  
- Operating system: CentOS Linux
- CernVM File System installed (cvmfs)
- Access via SSH using Public Key Authentication
- ECAL-LUXE storage server:
  - ~350 GB of TB2021 data
  - ~750 GB of TB2022 data

## Future plan:

- to increase the server storage capacity;
- to connect our server at the LUXE GRID facilities as a compute node;
- to participate in the future test-beam campaigns.