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Computing in the context of Cherenkov Telescope Array (CTA)

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The Cherenkov Telescope Array (CTA) –an array of tens of Cherenkov telescopes deployed on an unprecedented scale –will allow the European scientific community to remain at the forefront of research in the field of very high energy gamma-ray astronomy.

One of the challenges to design the CTA observatory is to handle the large amounts of data generated by the instrument and to provide simple and efficient user access at any level and according to astrophysical standards in order to serve the data and the software for data analysis to the physics community. The high data rate of CTA together with the large computing power requirements for Monte Carlo simulations, fundamental tool for data selection and calibration, demand dedicated computer resources which can be well handled through a DCI approach. Preliminary works and ideas about the organization of a coherent Data Management system for CTA will be presented.

Presenter: Dr LAMANNA, Giovanni (LAPP)