ASPERA

COMPUTING FOR ASTROPARTICLE PHYSICS

Aspera workshop in CC-IN2P3 Lyon 7-8 October 2010

Astroparticle physics studies high energy phenomena using new cosmic messengers (high energy photons, cosmic rays, neutrinos and gravitational waves), the nature of dark matter and energy, the form of matter and interactions at the highest energies (proton lifetime, neutrino properties).
The large infrastructures proposed in the ASPERA Roadmap will face challenging problems of data collection, data storage and data mining.

In the Lyon workshop these issues will be addressed and will be confronted with data storage and analysis models developed in particle physics and astrophysics.

Issues of intelligent distributed data gathering and heterogeneous data fusion will also be addressed, as well as the availability of environmental data collected by these observatories to geosciences and the education network (outreach).

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