

Second ASTERICS-OBELICS Workshop



Contribution ID: 11

Type: **not specified**

CORELib: A COsmic Ray Event LIBrary for Open Access (D-ANA)

Monday, 16 October 2017 12:35 (20 minutes)

Cosmic rays are a common background source for experiments in astroparticle physics and neutrino astronomy. The requirements of computing power needed to simulate air showers are heavily dependent on the energy window of interest, the simulated processes, the minimum energy of products and the inclination of the primaries. CORELib is a cosmic ray event library that is meant to be open to access to satisfy a broad range of needs. Although models are always changing and improving, there is a need for a reference dataset suitable also to develop and compare the performances of reconstruction and classification algorithms. The status of production is reviewed and the challenges in data sharing are discussed.

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