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PARTICLE IDENTIFICATION IN SPACE EXPERIMENTS WITH SCINTILLATORS DETECTORS

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Particle identification is a crucial aspect of most particle physics experiments.

In particular for space experiments, due to the limited downlink bandwidth and to the necessity to stimulate multimessenger observations, it is of paramount importance to design an experiment which is able to apply online triggers to identify the impinging particles.

Currently, we are living in extraordinary times in space science with plenty of novel and ambitious missions, anticipating a scientific knowledge revolution. Most of them exploit ambitious designs, which are possible thanks to the use of SiPMs as readout of organic and inorganic scintillators.

In this talk some basic strategies for particle identification in space experiments will be presented and the influence they have in the design of new space missions.

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