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## **Simulation of formation and propagation of cosmic-ray ensembles**

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High energy particles, including photons, should interact with matter and various types of radiation while propagating through the Universe. These interactions obviously initiate particle cascades of various types and sizes, here referred to as cosmic-ray ensembles (CRE). Some preliminary results of the study of conditions under which it will be possible to identify at least two cosmic ray belonging to one CRE at the Earth are presented and discussed.

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