

Studies on cosmic ray-lightning correlations in AUGER

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The process that initiates lightning inside thunderclouds is not yet understood. Extended air shower from cosmic rays provide electrons and particles that in energetic runaway processes could trigger lightning. The Pierre Auger Observatory is the largest experiment measuring cosmic rays. The sensitivity to lightnings of the different detector types of the hybrid observatory as well as additional devices to detect lightnings are discussed in the context of a potential correlation measurement between cosmic rays and lightnings.

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