



Contribution ID: 25

Type: poster

On the energy deposition by electrons in air and the accurate determination of the air fluorescence yield

The uncertainty in the absolute value of the fluorescence yield FY still puts a severe limit on the accuracy of the primary energy of UHECRs. Accurate measurements of the fluorescence yield are being carried out in many laboratories around the world. The determination of the energy deposited in the field of view of the collision chamber is subjected to uncertainties that have to be taken into account for a correct evaluation of the FY precision. In this work we discuss on the calculation of this energy deposition and its accuracy.

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