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The impact of the fluorescence yield on the energy reconstruction of UHECR showers

The fluorescence yield FY is a key parameter in the determination of the primary energy of UHECRs using the fluorescence technique. For a given fluorescence signal, the reconstructed primary energy is strongly dependent on the assumed FY parameters (absolute value, wavelength spectrum, pressure dependence, etc.). Auger, HiRes and TA experiments have used different FY assumptions. In this work we will show results on reconstructed energy against the assumed FY parameters for those used in the above experiments. These results provide useful information on the corresponding energy scales

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