Contribution ID: **39** Type: **Poster**

Analysis of Pierre Auger Observatory open data using EGI Jupyter notebooks

Tuesday, 20 September 2022 19:00 (1 hour)

Secondary school students learn about astroparticle physics in the scope of Open Science project of the Czech Academy of Sciences. Examples of analyses of open data published by Pierre Auger Observatory are provided on Kaggle platform. We compare this platform with local environment on desktop and with usage of EGI Jupyter notebooks. Effort to gain access, ease of use, stability, performance and availability of hardware resources will be presented. Full dataset of published Auger events consisting of 22731 showers measured with the surface detector array and of 3156 hybrid events in pseudo-raw data JSON format was used in this work together with more compact summary file in CSV format.

Any relevant links

Topic

EOSC Compute Platform

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