

MMODA multimessenger data analysis platform

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We present the project MMODA (Multi-Messenger Online/Open Data/Distributed Analysis) which is an astroparticle community initiative carried out in partnership between François Arago Centre (FACE) of the APC laboratory, the University of Geneva and EPFL. MMODA aims to provide a real-time, online data analysis platform. The platform makes use of cloud-based data management solutions and virtualization technologies. It is intended to meet the challenges of efficient sharing and reuse of data and data analysis workflows and the reproducibility of results. Apart from standalone analysis plugins, we enable automatic deployment of the workflows in the form of semantically-annotated Jupyter notebooks. This process enables efficient crowd-sourcing of the analysis-as-a-service modules encompassing the domain expertise.

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