

ISAPP21: ctools hands-on session

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In this session you will learn how to use ctools to analyse gamma-ray data from imaging atmospheric Cherenkov telescopes.

The session will start with a short presentation and a demonstration (simulation and analysis of CTA observations of the Crab nebula).

In the following hands-on part you will choose an exercise to work on on your own or in a small group with the assistance of the coaches.

Before the session

The following operations should be performed on the computer that you will be using for the hands-on session.

- install ctools: <http://cta.irap.omp.eu/ctools/admin/index.html> (recommended option: Installing via Anaconda)
- get Jupyter if you wish to use it for the exercises: <https://jupyter.org/install> (the exercises are provided as Jupyter notebooks or in PDF)
- get the public H.E.S.S. data: http://cta.irap.omp.eu/ctools/users/tutorials/hess_dr1/data.html
- get the latest CTA IRFs: http://cta.irap.omp.eu/ctools/users/user_manual/irf_cta.html#getting-cta-irfs (you can get prod3b-v2 IRFs from: <https://www.cta-observatory.org/wp-content/uploads/2019/04/CTA-Performance-prod3b-v2-FITS.tar.gz>)
- download the material for the session (slides, demo, and exercises): http://userpages.irap.omp.eu/~ltibaldo/material/material_ctools_ISAPP_2021.zip