

Abstract for Datalabs Workshop

Alice Young – Using ESA Datalabs to create analysis tools for the James Webb Space Telescope

In my presentation I will discuss the Python Notebook I am developing for my Young Graduate Trainee project which performs master background subtraction on irregular 2D data products from the NIRSpec instrument aboard the James Webb Space Telescope. Since Datalabs will provide a convenient hub for JWST data, my project is one of the first at ESA which focuses on making complementary tools which researchers utilizing NIRSpec data will have access to on the new platform. I will introduce the science justification for such an analysis tool, the steps that went into creating the Notebook within Datalabs, as well as an example workflow involving the use of the master background subtraction tools. I will also briefly discuss “lessons learned” regarding the use of Datalabs as a science user.