

Jupyter Notebook

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Jupyter

- ▶ Jupyter is a Mathematica like interface to > 100 kernels
 - ▶ Kernel is underlying language such as Python, C, Forth, FORTRAN, Gnuplot, Haskell, R, Java, Javascript, Julia, MATLAB, Perl, R, ROOT and Mathematica
- ▶ As with Mathematica, you create notebooks with text, graphics and calculations in any of the installed kernels
- ▶ Designed to run on your desktop/laptop via a browser
- ▶ Installed on the farm (Astro) and on the IC
- ▶ To run on a remote machine, you tell it to not connect to a browser and then connect to it via an ssh tunnel
- ▶ Anyone can connect, so recommend using SSL and a password.

Jupyterhub

- ▶ For those who cannot handle ssh tunnels, there is jupyterhub
 - ▶ Server you connect to with your browser
 - ▶ Authenticate
 - ▶ Presented with a jupyter session
- ▶ Two test jupyterhub machines have been setup to frontend the IC
 - ▶ Both interact with slurm
 - ▶ One sees the anaconda3 environment installed on the IC
- ▶ Is there a wider audience?