

Running AIPS at UNM

To work on the data for homeworks 6-8 you will use the astr423 account on virgo.phys.unm.edu (421-424) or hercules.phys.unm.edu (425-427). The password is lwa4Fun&\$. Please be aware that there are 7 different groups working within the same account so you will need to keep your files in separate subdirectories. These directories and AIPS user numbers (421-427) are assigned below:

421: Cas A	Brett	Christina	Raman	
422: Cyg A	Alexandra	Stephanie	Dylan	
423: M87	Isabela	Alexis	Aniketh	
424: Jupiter-team2	Lily	Sharleen	Yifu	
425: Starlink	Ella	Jacob	Sarah	
426: Sag A	Rachel	Annalisa	Madeline	Mark
427: Jupiter-team1	Charlie	Sara P.	Joaquin	

These directories are in the HOME area (where you land after you login). All machines have the VLA data set loaded up already since those are needed to complete homework 6. Homework 6 should be carried out starting with the multi-source dataset A2597-VLA.MULTIC that we took for this class. You can find it in disk 1 on virgo or disk 2 on Hercules once you are inside AIPS. Do not use disk 1 on Hercules for any files inside AIPS as this is mounted on the home directory and if that fills up then the machine could crash.

If you have a laptop computer you can install “x2go” (runs under OS X, and linux) and use it to create virtual sessions on virgo or hercules which is a linux server-grade machine.

For the projects I will get all of the data loaded up over Spring Break. For now, just start with calibrating the VLA observations at 5 GHz.

On virgo or hercules:

A special account, astro423 has been set up with password “lwa4Fun&” (no quotes). To run AIPS do the following:

Login to the machine as astro423. Start up a terminal window. Now inside the terminal window do the following:

```
% source ~gtaylor/aips/LOGIN.SH
% aips tv=local:1 (local:2 if local:1 is already in use, or local:3 ...)
```

Once prompted enter the user number assigned to your group (e.g., 423; see above).

See the AIPStutorial.pdf file for details about using AIPS and calibrating VLA data.

If you are stuck and need help with AIPS you can ask Greg Taylor (PAIS 3236 or set up a zoom). The TA, TBD, can also give advice. AIPS is quite powerful but has a fairly steep learning curve so be prepared for a struggle and don't give up.