

# Software Tools at Yale Workshop

Corey Adams



# We will have access to Yale's HPC Cluster for the Workshop

- We will get 12 nodes on their Linux Clusters
- Each node has 8 cores with 32GB shared memory, node will let 8 users on at max (shouldn't need to fill it up with only ~30 users...)
- OS is Red Hat Enterprise 5.8
- Each account will have access to shared scratch file system with about 3 TB of total storage - this is where larsoft will live and all of the data.
- More Information here [https://hpc.research.yale.edu/hpc\\_user\\_wiki/index.php/Bulldogj](https://hpc.research.yale.edu/hpc_user_wiki/index.php/Bulldogj)

# Support for this System

- A Yale person will be on hand during part of the first day of the conference (Monday), and will provide telephone and email contact information for ongoing support through out the week
- We will install larsoft on the nodes prior to the workshop. They are expecting us to install a complete, self contained software environment (including compilers, etc.). Therefore if we need special preinstalled system software or tools, we should request them now.
- I anticipate installing v1\_00\_03, both debug and prof.
  - Objections? Demands for v1\_00\_02 or 01?

# Computing accounts

- Each person will have an account set up for them on the cluster in advance of the workshop.
- Authentication will be through public-private ssh key pairs, and you will need to submit your public key to the Yale HPC folks before the workshop.
  - Yale provided documentation to generate an ssh key pair, I uploaded it with this talk.
  - You will need to email these directly to Andy Sherman, make your email's subject line MICROBOONE WORKSHOP SSH KEY: (last name) (first name)
  - Does anyone use windows? Apparently PuTTY is an exception to the ssh key standard format.
- You will also need to submit the MAC address of your laptop, to ensure you have access to Yale's network (can't access the cluster from off network)
  - Many of you have already done this, if you haven't email the address to me and Mike Kirby with the subject MICROBOONE WORKSHOP MAC ADDRESS: (last name) (first name)

# Next Steps

- Our local support is through Andy Sherman ([andrew.sherman@yale.edu](mailto:andrew.sherman@yale.edu)) and Kiran Keshav ([kiran.keshav@yale.edu](mailto:kiran.keshav@yale.edu))
- We've been asked to submit a list of participants along with Institution, Email Address, and Laptop Wireless MAC Address to Kiran by **March 1st**.
- We should submit ssh public keys to Andy by **March 7th**.
- In the week before the workshop, we will transfer all of the desired files from FNAL to Yale so that they are available locally.