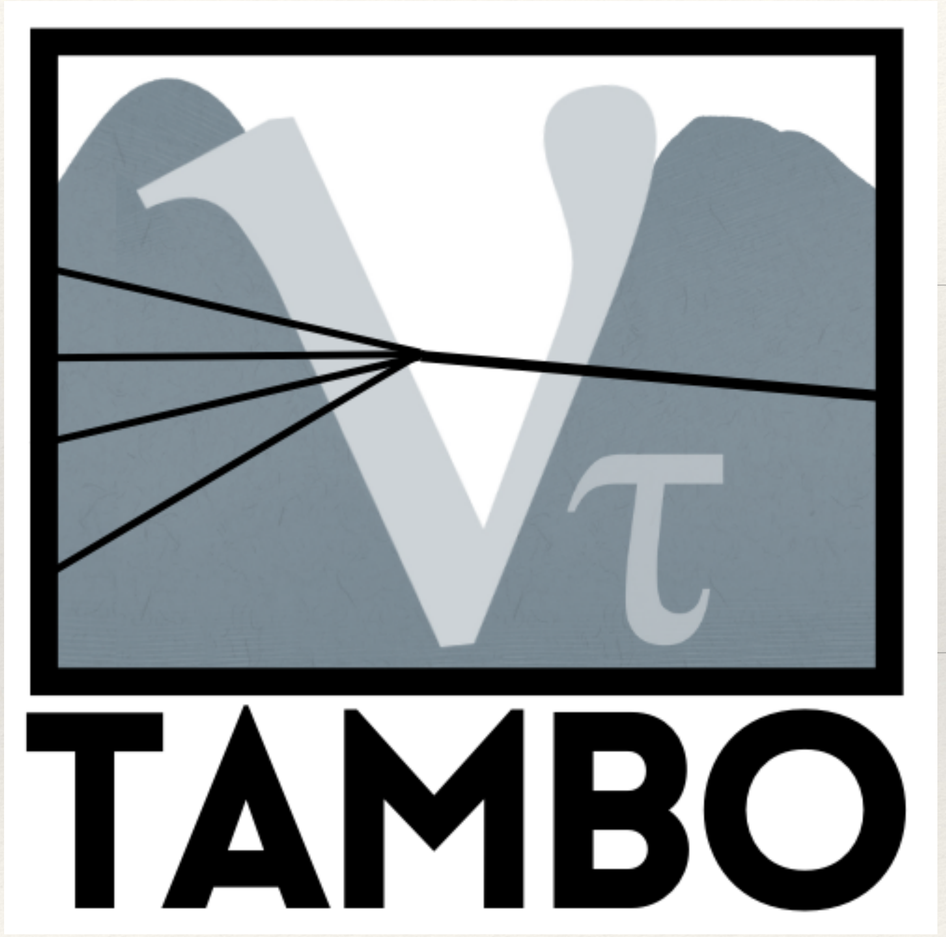
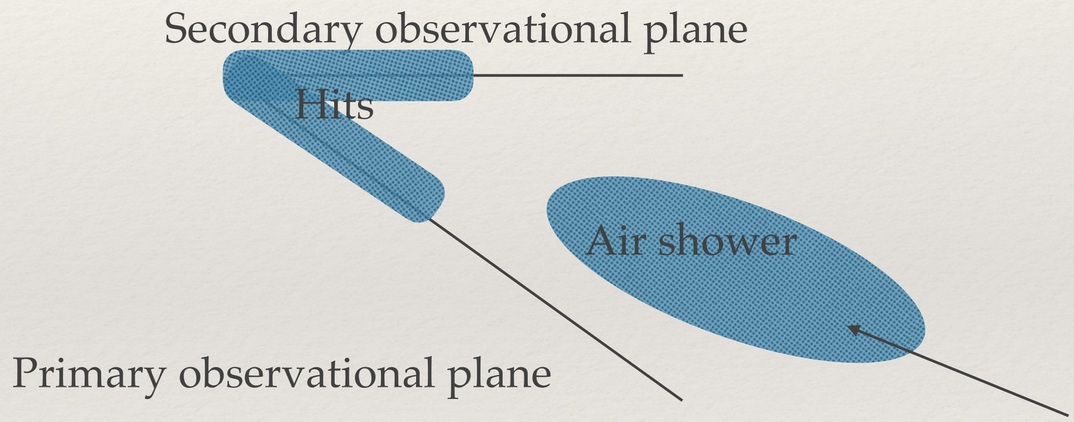


Pavel Z. for TAMBO collaboration with Jeff L. And Will T.

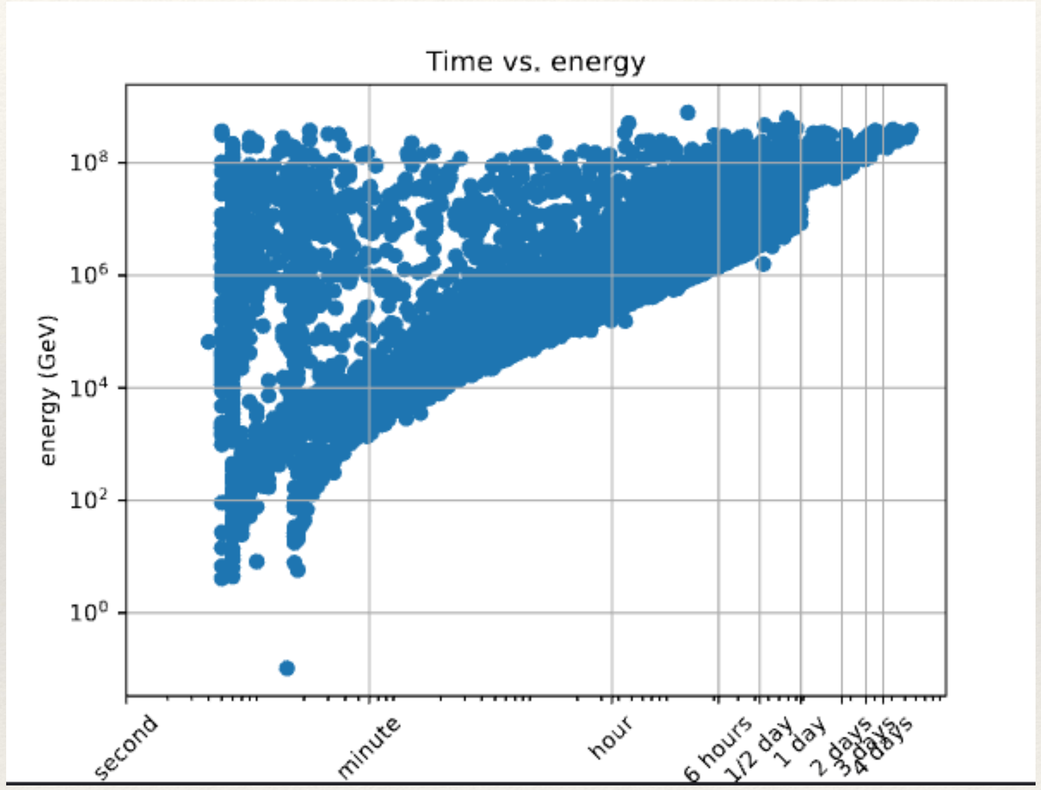
Overview of what we are doing

- Applying 1 GeV E cuts to hadrons, muons and EM particles for each shower
- Have thinning at 1e-6 of primary particle energy
- Max weight = 0
- Have a obs plane above angled plane to capture particles that exceed physical altitude



Still too long

- Showcasing run time using os.path.getctime()
- Dip at 1 day comes from time limit I set on first pass at running jobs
- I take the jobs that don't terminate in one day and I send them to a partition that allows me to run jobs for 7 days
- A handful of those still didn't finish



Suggestions?

- We want to optimize the E-cuts with runtime
- NKG parameterization has been done previously and we would like to avoid that if possible
- We would like to get timing information so that we can simulate triggering
- Currently our rates are off by several orders of magnitude from NKG parametrization

Backup

What is TAMBO

- Tau Air-shower Mountain Based Observatory (TAMBO)
- Colca Valley, Peru
- Tau neutrinos interact inside Earth, produce tau lepton which decays in air, inside valley
- Record air showers via scintillator panels/water tanks