

First C.R.O.P. Fall Saturday Workshop

October 19, 2013

8:30 – 9:00	Participants arrive, nametags
9:00 – 9:05	Welcome and review day's agenda
9:05 – 9:10	Evaluation information
9:10 – 10:10	Pre-workshop assessment
10:10 – 10:35	Introduction to C.R.O.P., C.R.O.P. history, cosmic ray physics, and extensive air showers
10:35 – 10:45	Break (Snacks provided)
10:45 – 12:00	Introduction to oscilloscopes and their use. Hands-on work with oscilloscopes, function generators, and oscilloscope worksheet (small groups)
12:00 – 1:00	Lunch (Food provided)
1:00 – 1:30	Introduction to scintillators and photomultiplier tubes
1:30 – 2:10	Hands-on work with scintillators, and PMTs, including high voltage safety and light leak testing (small groups)
2:10 – 2:20	Break
2:20 – 3:30	Continue hands-on work with PMTs. Activity with detectors to estimate threshold (small groups)
3:30 – 3:45	Discussion of school activities with scintillators and oscilloscopes.
3:45 – 4:00	Wrap up and Q&A
4:00	Adjourn
4:00 – 4:30	Clean up and loading
