Astronomy 4100 / 6100

Presentation Guidelines

Due Friday April 10 at 5pm
Turn in on iCollege

Students enrolled in 4100 will give 10min presentations on different kinds of detectors. Students enrolled in 6100 will have 15min to present different instruments. All presentations must include the following material:

- basic design, components, physical explanation, and mode of operation
- characteristics (examples: wavelength range, resolution, noise, etc)
- examples of current/recent/planned instruments or detectors at astronomical observatories
- scientific applications and examples of published or preliminary results (4100 - optional, 6100 - required)
- references used (wikipedia does NOT count)

Presentation slides should be created electronically and saved as **powerpoint or pdf files only** (do not give me keynote slides --- I have an old version that is not compatible). All presentations will be loaded onto and run from Dr. Bentz's computer --- this will help us to stay on schedule and eliminate the need to switch back and forth between multiple laptops. Be sure that you arrive for class early on the day of your presentation if at all possible so that you can upload your presentation and check that it displays properly. This particular setup is often used at large conferences to facilitate the flow of presentations.

Grades will be based on preparation, completeness, clarity, attention to detail, and delivery. This includes finishing within ±60s of your allotted time (no one likes a speaker who goes significantly over their time allotment!).

There are 100 total possible points for your presentation. Grading will follow the scheme described below:

ASTR 4100

Basic design, components, physical explanation, and mode of operation	15 points
Characteristics (examples: wavelength range, resolution, noise, etc)	15 points
Examples of current/recent/planned instruments at astronomical observatories	15 points
References used	15 points
Presentation delivery	15 points
Attention to time (must finish within ±60s for these points)	10 points
Comments on other student presentations	15 points

ASTR 6100

Basic design, components, physical explanation, and mode of operation	15 points
Characteristics (examples: wavelength range, resolution, noise, etc)	10 points
Examples of current/recent/planned instruments at astronomical observatories	10 points
Scientific applications	15 points
References used	10 points
Presentation delivery	15 points
Attention to time (must finish within ±60s for these points)	10 points
Comments on other student presentations	15 points

Astronomy 4100 / 6100

Presentation Topics

Nick: InSb and HgCdTe arrays (10m)	**Ty:** scintillator (10m)
Kristin: charge injection device (10m)	**Becky:** integral field spectrograph (15m)
Anderson: proportional counter (10m)	**Ellie:** imaging fourier transform spectrograph (15m)
Gillian: microchannel plate detector (10m)	**Khadeem:** spectropolarimeter (15m)
Chris: bolometer array (10m)	
Patrick: microcalorimeter array (10m)	

Recording your presentation:

All presentations will be recorded by the student and uploaded to iCollege, with the presentation slides also uploaded separately.

Recordings should include the student and the student's screen at the same time. The easiest way to do this is with the free web conferencing tool, Zoom. A short and helpful tutorial for recording your screen and yourself at the same time with Zoom can be found here:

http://www.youtube.com/watch?v=gk7l1FJB35s

You may use other tools if you prefer, but the recording should include the presenter and the presentation at the same time.

Comments on other presentations:

Once the recordings have been turned in, Dr. Bentz will make them available to the whole class. All students will be expected to watch the presentations and comment on them. Each student will turn in a single document (.doc, .docx, or .pdf) that includes meaningful comments for all the other students (except themselves). These comments should include

a.) what the student did well, and

b.) what the student could work on before their next presentation.

Examples of things to watch for include: pace, volume, preparation, slide organization, text size, etc.