

Program, Center for Adaptive Optics Fall Science Retreat
UCLA Lake Arrowhead Conference Center
Meetings in Iris Room, Social Events in Tavern

Friday October 30

6:30 pm - Dinner

8:00 pm to midnight - Welcome Reception

Saturday October 31

8:00 am Breakfast

9:00 - 9:15 am – Welcome and Introductions - Claire Max

9:10 am Astronomical Science with AO

Examples and discussion topics:

Speakers are asked to describe their scientific work, and to address how they deal with AO-specific issues; what worked and what didn't; what is their wish list to make AO observing easier and better.

9:15 - 9:40 Tuan Do, UCLA: Metallicity and Origin of Stars at the Milky Way Center

9:40 – 10:05 Breanne Sitarski, UCLA: Infrared Excess Sources in the Galactic Center

10:05 – 10:30 Samantha Chappell, UCLA Late-Type Stellar Density Profile in the Galactic Center

10:30 – 11:00 Coffee Break

11:00 – 11:25 am Anne Medling, ANU: Tracing Galaxy Outflows Across Multiple Spatial Scale

11:30 – 12:00 Discussion – AO Imaging Experiences and Lessons Learned

12:00 – 1:30 Lunch

1:30 – 1:55pm Alex Rudy, UC Santa Cruz: Searching for Outflows in Nearby U/LIRGs

1:55 – 2:20pm Rosalie McGurk, MPIA Heidelberg: Dual AGNs

2:20 – 2:45pm Andrew Skemer, U. Arizona and UCSC: First Light with a 2-5 Micron AO Integral Field Spectrograph for the LBT

2:45 – 3:10pm Max Service, U. of Hawaii

3:10 – 3:30pm Discussion: AO Spectroscopy Experiences and Lessons Learned

3:30 – 4:00pm Coffee Break

4:00 – 5:30pm Discussion: Determining and using the AO point spread function

Lead talk by Jessica Lu, Univ. of Hawaii: Improving our Knowledge of the AO PSF

6:30pm Dinner

8:00pm Social Hour: **Halloween Celebration, Pumpkin Carving Contest**

Sunday November 1

9:00 - 10:30 am Discussion: AO Data Reduction Pipelines

Types of pipelines, and specific examples

What do we want pipelines to do?

How well do they work in practice (advantages and disadvantages)?

What to watch out for when using an AO data pipeline

How to improve them

10:30 – 11:00am Coffee Break

11:00am - 12:00pm Discussion: Solar AO vs. Night-Time AO

How can we make MCAO work better for Solar?

Can we use Solar correlation techniques for night time observing?

12:00 - 1:30pm - Lunch

Fall Science Retreat ends after lunch on Sunday