LyA Workshop Program

Note 15 min duration = 12 min talk + 3 min for questions, 20 min = 15 + 5 min

Thursday

Time	Duration	Speaker	Title
		Surveys and Methods	
		Session Chair: Meagan Herbold	
9:00	0:05	Beacom	CCAPP Welcome
9:05	0:20	Guy	Overview of DESI LyA
9:25	0:20	Martini	Overview of Future Surveys
9:45	0:20	Newman	LATIS: The LyA Tomography IMACS SUrvey
10:05	0:15	Turner	LyCAN continuum predictions and cosmological forecasts
10:20	0:40	Coffee Break (Subset to AstroCoffee)	
11:00	0:15	Gontcho A Gontcho	SpenderQ: data-driven unsupervised learning method for quasar continuum reconstruction
11:15	0:15	Ting	Deriving Robust Quasar Continua Without Reliance on Training "Ground-Truth" Continua
11:30	0:45	Discussion 1: Where are new opportunities to advance analysis methods?	
12:15	1:30	Lunch Break	
13:45		**IGM and Reionization**	
		Session Chair: Mikel Charles	
13:45	0:20	Faucher-Giguere	Strong Low-ionization Absorbers from the Pre-virialized Inner CGM
14:05	0:20	Lehner	IGM Metallicity and Dense IGM
14:25	0:15	Brodzeller	DLA Characterization in Large Surveys
14:40	0:20	Zheng	Constraining the Temperature-Density Relation of the Intergalactic Medium from Modeling Lyman-alpha Forest Absorbers
15:00	0:30	Coffee Break	
15:30	0:15	Karacayli	IGM Metal Abundance from P1D Measurements
15:45	0:15	Wolfson	Constraining Reionization with the z > 5 Ly-alpha forest
16:00	0:15	Zhu	Constraining reionization using IGM damping wing in the Lya forest and new insights on ionizing photon production efficiency from JWST observations
16:15	0:45	Discussion 2: What can we learn about IGM physics and reionization from large surveys?	
17:00			
17:45		Dinner at Figlio in Grandview	

Friday

Time	Duration	Speaker	Title
		Cosmology	
		Session Chair: Molly Wolfson	
9:00	0:20	Cuceu	High redshift 3x2pt analyses with Lyman-alpha and discrete tracers
9:20	0:20	Croft	Lyman Alpha Forest Lensing
9:40	0:20	de Belsunce	Cosmology with the Lya 3D power spectrum
10:00	0:20	Karacayli	P1D Cross Correlations with the CMB
10:20	0:40	Coffee Break (Subset to AstroCoffee)	
11:00	0:15	Guy	BAO Systematics
11:15	0:10	Herbold	Construction of Mock P1D Datasets
11:25	0:45	Discussion 3: What new physics can we constrain with LyA data?	
12:10	0:10	Group Picture	
12:20	1:20	Lunch Break	
13:40		**Modeling**	
		Session Chair: Andrei Cuceu	
13:40	0:20	Lukic	Lyman alpha simulations in Gpc boxes
14:00	0:20	Qezlou / Ho	Cosmological Inference with PRIYA simulation suite
14:20	0:20	Ivanov	Don't miss the forest for the trees: Lyman alpha forest in effective field theory
14:40	0:45	Discussion 4: What do we need from simluations?	
15:25	0:30	Coffee Break	
15:55		**Quasar Physics**	
15:55	0:15	Green	Quasar classification in large surveys
16:10	0:15	Croft	Large-scale surveys of the quasar proximity effect
16:25	0:15	Charles	Quasar clustering and its evolution at high redshift
16:40	0:30	Discussion 5: What are or should be the next major studies?	
17:10			