



# PAINT2024 - Workshop on Progress in Ab Initio Nuclear Theory

## Tuesday, February 27, 2024

### Afternoon: Talks (2:00 PM - 3:30 PM)

-Conveners: Robert Roth

time	[id] title	presenter
2:00 PM	[7] What's missing? An investigation of $^3\text{He}(\alpha,\gamma)^7\text{Be}$ radiative capture	ATKINSON, Mack
2:30 PM	[8] Islands of inversion and other challenges to the no-core shell model	JOHNSON, Calvin
3:00 PM	[9] Intruder structure, shape coexistence, and configuration mixing from an ab initio perspective	CAPRIO, Mark

### Afternoon: Talks (4:00 PM - 5:30 PM)

-Conveners: Robert Roth

time	[id] title	presenter
4:00 PM	[10] Ab initio investigation of $^7\text{Li}(p, \gamma)^8\text{Be}$ and $^7\text{Li}(p, e^-)^8\text{Be}$ processes	GYSBERS, Peter
4:30 PM	[11] Collective and single particle structure of $^{12}\text{Be}$ negative parity spectrum	MCCOY, Anna
5:00 PM	[49] Ab initio description of monopole resonances in light- and medium-mass nuclei	PORRO, Andrea

# Wednesday, February 28, 2024

## Afternoon: Talks (3:00 PM - 3:30 PM)

-Conveners: Gaute Hagen

time	[id] title	presenter
3:00 PM	[23] Electric dipole polarizability in medium-mass nuclei	BONAITI, Francesca

## Afternoon: Talks (4:00 PM - 5:00 PM)

-Conveners: Gaute Hagen

time	[id] title	presenter
4:00 PM	[24] The magnetic dipole transition in $^{48}\text{Ca}$	PAPENBROCK, Thomas
4:30 PM	[25] Ab initio spectroscopy from the valence-space density matrix renormalization group	TICHAJ, Alex