

Midwest Cold Atom Workshop, Nov. 14-15, Argonne National Laboratory

Friday, Nov. 14, Building 460 (Guest House)

6:00 – 7:00 Buffet pizza dinner
6:00 – 9:00 Poster session

Saturday, Nov. 15, Building 203 Auditorium (Physics Division)

08:00 Registration desk opens

Session I Chair: Cheng Chin

08:30 – 09:00 Jesus Perez-Rios, Purdue, Low energy ion-atom-atom recombination theory
09:00 – 09:30 Wenchao Xu, UIUC, Recent results from the DeMarco group
09:30 – 10:00 Li-Chung Ha, Chicago, Roton-Maxon excitations of Bose condensates in a shaken optical lattice

Session II Chair: Georg Raithel

10:30 – 11:00 Richard Parker, Argonne, The first measurement of the radium EDM
11:00 – 11:30 Arnaud Leredde / Adrian Perez-Galvan, Argonne, Studies of the beta-neutrino correlations with trapped atoms: He-6 and B-8
11:30 – 12:00 Stephanie Miller / Kaitlin Moore, Michigan, Recent results from the Raithel group

12:00 – 01:30 Lunch

12:30 – 01:30 Lab tour

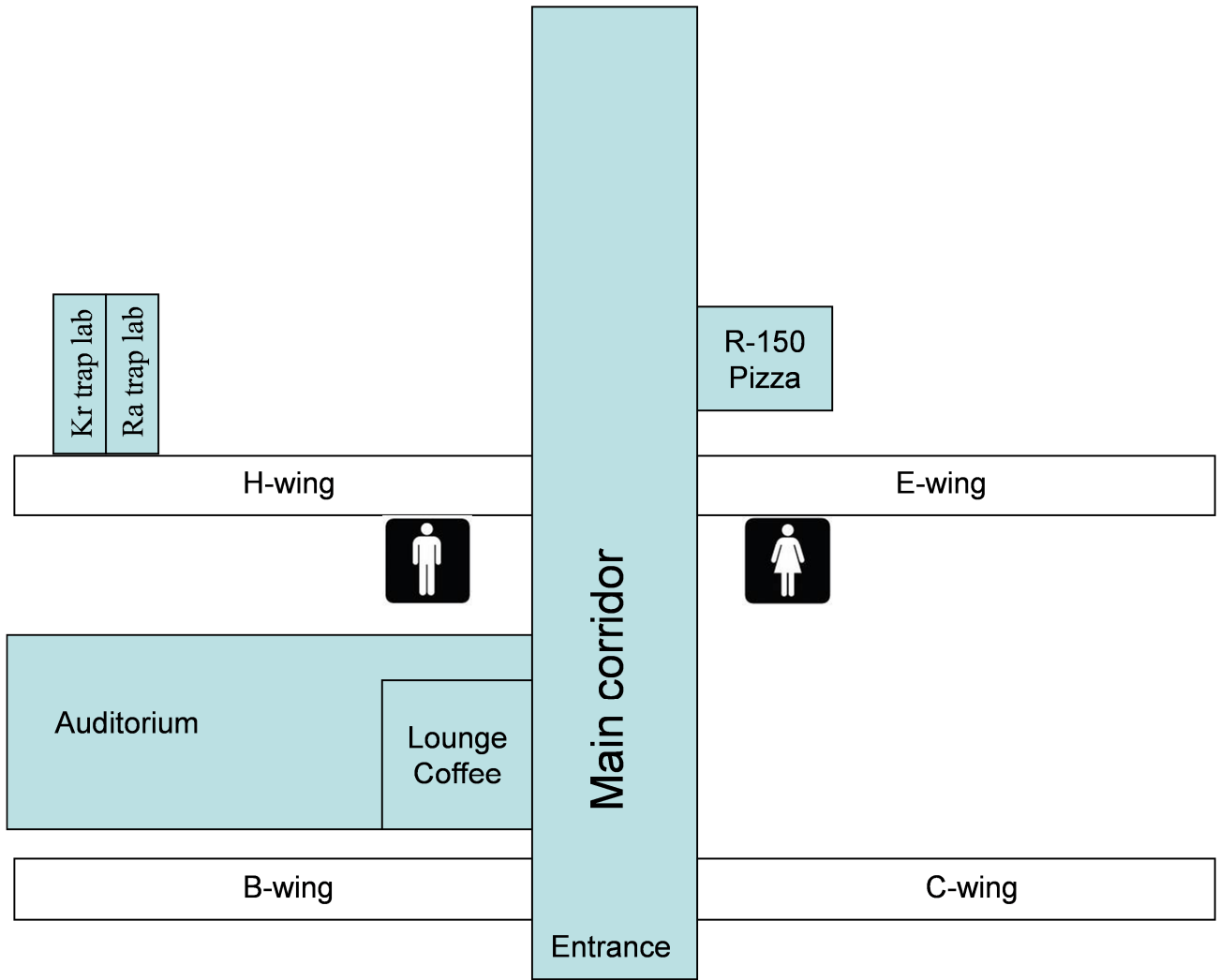
- Guided tours of the ATLAS accelerator depart at 12:30 and 1:00;
- Trap labs in the H-wing are open throughout the hour.

Session III Chair: Thad Walker

1:30 – 2:00 Brian Odom, Northwestern, Getting trapped molecules in the quantum toolkit
2:00 – 2:30 Minho Kwon, Wisconsin, Rydberg atoms and ensemble blockade
2:30 – 3:00 Tian Xia, Wisconsin, Quantum gates and entanglement in an array of Cs qubits

Session IV Chair: Chris Greene

3:30 – 3:50 Nick Brewer, Wisconsin, Left-handed electromagnetic waves in rare-earth doped crystals
3:50 – 4:10 Ariel Sommer, Chicago, Rydberg polaritons in an optical cavity
4:10 – 4:30 Hudson Smith, OSU, Creating and destroying universal molecules with an oscillating magnetic field
4:30 – 4:50 Tigran Sedrakyan, Minnesota, Chiral spin liquid with spinless cold atoms



Building 203, Physics Division