ATOMIC PHYSICS WITH RARE ATOMS PROGRAM JUNE 1-3, 2009

340 WEST HALL

Monday, June 1st:

9:00 am	Registration and informal gathering
10:30 am	Coffee Break (337 West Hall)
11:00 am	Lab tours G. Raithel, A. Leanhardt, W. Lorenzon, T. Chupp
12:00 pm	Lunch (on your own)
2:00 pm	Welcoming Remarks T. Chupp, G. Raithel, G. Kane, and C. Gelbke
Topic: Laser Spectroscopy and Nuclear RadiiSession Chair: T. Chupp2:30 pmGordon Drake (University of Windsor)	
3:00 pm	"Sizing Halo Nuclei with Isotope Shifts" Peter Mueller (Argonne National Laboratory) "Laser Trapping and Probing of Exotic Helium Isotopes"
3:30 pm	Coffee Break (337 West Hall)
4:00 pm	Wilfried Nörtershäuser (Mainz) "Extending Collinear Laser Spectroscopy Towards the Lightest Elements: The Nuclear Charge Radius of the One-Neutron Halo Isotope Be-11"
4:30 pm	Jonathan Billowes (University of Manchester) "Laser Spectroscopy of Radioactive Atoms using an RFQ Ion Cooler/Trap"
5:00 pm	lain Moore (University of JYVÄSKYLÄ) "Towards the Study of Heavy Elements at IGISOL with Resonance Ionization Spectroscopy"
5:30-5:45 pm	Charles Crowley (University of Michigan) "Rare Isotopes Detected in Stellar Spectra"

Tuesday, June 2nd:

Topic: Ion Traps, Storage Rings, Antihydrogen Session Chair: G. Bollen

"Prospects for Mass Measurements of Super-Heavy Elements with Penning Traps"
Ryan Ringle (NSCL/TRIUMF) "Atomic Physics Techniques Employed at TITA"
Thomas Stoehlker (GSI-Darmstadt) "The Science Program of the Atomic Physics Collaborations at FAIR"
Coffee Break (337 West Hall)
Makoto Fujiwara (TRIUMF) "Towards Fundamental Symmetries Test with ALPHA Antihydrogen Experiment"
Gerald Gabrielse (Harvard University) "Low Energy Investigations of Fundamental Symmetries with Trapped Particles, Antihydrogen and Molecules"
Discussion
Catered Lunch in 337 and 335 West Hall
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John Behr (TRIUMF) "Decay Experiments with Atom Traps"
Melissa Jerkins (Raizen Lab at University of Texas at Austin) "Using Cold Atoms to Measure Neutrino Mass"
Klaus Jungmann (KVI, University of Groningen) "Physics at the TRImP Facility of KVI"
Coffee Break (337 West Hall)
William Williams (Argonne National Laboratory)
"Atom Trap Trace Analysis with Kr/Ar" Dan Melconian (Texas A&M University/Cyclotron Institute) "The Cylcotron Institute Upgrade at Texas A&M"
Discussion
Workshop Dinner Party at the UM Museum of Art (Apse Room)

Wednesday, June 3rd:

Topic: Parity, anapole moments Session Chair: J. Behr		
9:00 am	Luis Orozco (University of Maryland) "Anapole Moment Measurement in Fr"	
9:30 am	Gerald Gwinner (University of Manitoba) "Towards an Optical Parity Violation Experiment in Francium"	
10:00 am	Discussion	
10:30 am	Coffee Break (337 West Hall)	
11:00 am	Nicholas Stone (Oxford University & University of Tennessee) "G-Factor Measurements by Recoil-in-Vacuum Method: A Priori Calculation of the Hyperfine Interaction in Highly Stripped Atoms"	
11:30 am	Philip Levy (TRIUMF) "Polarized Rare Isotope Beams"	
12:00 pm	Matthew Pearson (TRIUMF) "Nuclear Moment Measurements"	
12:30 pm	Catered Lunch in 337 and 335 West Hall	
Topic: EDM's, FRIB discussionSession Chair: ZT. Lu2:00 pmClark Griffith (NIST, Boulder)"New Linsit on the UK EDM"		
2:30 pm	"New Limit on the Hg EDM" Aaron Leanhardt (University of Michigan) "Molecular EDM – WC"	
3:00 pm	William Trimble (Argonne National Laboratory) "Progress on the Search for EDM in Ra-225"	
3:30 pm	Eric Tardiff (TRIUMF) "The RadonEDM Experiment"	
4:00 pm	Gordy Kane (University of Michigan) "Theoretical Perspectives on EDM Limits"	
4:15 pm	Coffee Break (337 West Hall)	
4:45 pm	Bradley Sherrill (Michigan State University) Discussion Leader on Physics and Atomic Physics at FRIB	
5:15 pm	Discussion	
6:00 pm	Workshop Concludes	