Session Program

11–12 Aug 2025

Workshop on Precision Measurements with Radioisotopes

Experiment

Texas A&M University, JCAIN 202
College Station, TX

Monday 11 August

09:00

Experiment: Molecules and Lasers

Session | **Location:** Texas A&M University, JCAIN 202, College Station, TX

09:00–09:05 **Welcome**

Speaker
Prof. Jonas Karthein

09:05–09:30 **Towards Ultracold Assembly of Radioactive Molecules for New Physics Searches**

Speaker
David DeMille

09:30–10:00 **Advancing precision studies of radioactive molecules for nuclear science**

Speaker
Shane Wilkins

10:00–10:30 **Laser spectroscopy for nuclear structure studies at FRIB**

Speaker
Kei Minamisono

10:30

11:00

Experiment: ANL lasers

Session | **Location:** Texas A&M University, JCAIN 202, College Station, TX

11:00–11:30 **Laser Spectroscopy at Argonne National Laboratory**

Speaker
Dr Bernhard Maass

11:30–12:00 **Update on the Ra-225 EDM experiment**

Speaker
Peter Mueller

12:00

15:30

Experiment: FRIB

Session | **Location:** Texas A&M University, JCAIN 202, College Station, TX

15:30–16:00 **Towards Protactinium-229 and Radioactive Molecules in Solids**

Speaker
Prof. Jaideep Singh

16:00–16:30

Towards Quantum Control and Sensing of Th227O Molecules and Other Radioactive Molecules for Nuclear Schiff Moment Search

Speaker
Xing Wu

16:30–17:00 **Things to do before... Pa229 EDM**

17:00

Speaker
Prajwal Mohanmurthy

Tuesday 12 August

09:00

Experiment: Masses

Session | **Location:** Texas A&M University, JCAIN 202, College Station, TX

09:00–09:30 **Latest news from LEBIT and future upgrades to the stopped beam facility at FRIB**

Speaker
Prof. Ryan Ringle

09:30–10:00 **Opportunities with the CPT at the N=126 Factory**

Speaker
Jason Clark

10:00–10:30 **Precise measurements of superallowed mirror beta decays at the St. Benedict facility**

Speaker
Sam Porter

10:30

11:30

Experiment: Experiment: Superheavies

Session | **Location:** Texas A&M University, JCAIN 202, College Station, TX

11:30–12:00 **Mass Spectrometry of Heavy Elements with AETHER**

Speaker
Erich Leistenschneider

12:00

13:30

Experiment: Cyclotron Research & New Methods

Session | **Location:** Texas A&M University, JCAIN 202, College Station, TX

13:30–14:00 **Low-energy nuclear ? decay at the CI: current status and future prospects**

Speaker
Prof. Dan Melconian

14:00–14:30 **Precision Spectroscopy at NEPTUNE and Texas A&M's Cyclotron Institute**

Speaker
Prof. Jonas Karthein

14:30–15:00 **Studies of Radium containing molecules for Fundamental Physics**

Speaker
Prof. Ronald F Garcia Ruiz

15:00

15:30

Experiment: New Methods

Session | **Location:** Texas A&M University, JCAIN 202, College Station, TX

15:30–16:00 **Radioactive + Molecule + Ion: 229ThF+**

Speaker
Xing Fan

16:00–16:30 **Precision measurements of molecular ions in a ring trap**

Speaker
Yan Zhou

16:30–17:00

Towards Cavity QED with Cold Molecules for Quantum-Enhanced Precision Measurements

Speaker
Edwin Pedrozo

17:00