Tuesday
Nov. 12th
At 3:45 pm

Tricks and Traps: Low Energy Searches for High Energy Physics

Abstract:

Trapped radioactive atoms and ions have become a standard tool of the trade for precision studies of beyond SM physics. β decay studies, in particular, offer the possibility of detecting deviations from standard model predictions of the weak interaction which signal new physics. These 'precision frontier' searches are complementary to the high energy searches performed by the LHC and other high energy/high luminosity facilities. I will present a general overview of magneto-optical, optical traps, and electrostatic traps, and their use for weak interaction studies. I will further present the new Hebrew University/Weizmann Institute/NRCN trapping program (TRAPLAB), recent experimental results, and future plans.

CYCLOTRON COLLOQUIUM

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Dr. Guy Ron

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Associate Professor

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Hebrew University of Jerusalem

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CYCLOTRON INSTITUTE
Room 228

Refreshments will be served at 3:30 pm

TEXAS A&M UNIVERSITY