

THE
CATHOLIC UNIVERSITY
of AMERICA



Department of Physics
Colloquium

Dr. Matthew Beeler

Johns Hopkins University Applied Physics Laboratory

Physics at the Extremes: From Ultracold to Hot and Fast

The first part of this talk will describe how ultracold atoms present a unique platform to investigate the properties of interacting many-body systems. The fine control and wide range of tunable parameters in these systems makes them ideal “quantum simulators” of systems as disparate as superconductors and neutron stars. I will give details about the first observation of the spin hall effect in an ultracold atom system (Nature 498, 201 (2013)). The second part of the talk will discuss my current work in Air and Missile Defense at the Johns Hopkins University - Applied Physics Lab.

Wednesday, September 6, 2017

4:00pm

108 Hannan Hall

Refreshments will be served at 3:45

Sponsored in part by the Graduate Student Association

For more information or if you would like to request disability accommodations, please contact:

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