



2013年度大学教育研究重点配分経費採択課題

理科共通コロキウム

日時: 11月12日(火) 13:00より**場所:** 愛知教育大学自然科学棟4階401号室

本学理科教育講座では、学内外の自然科学者による講演及び全体討論会「理科共通コロキウム」(<http://sites.google.com/site/auescicolo>)を実施しております。学内の教員や学生、並びに学外の研究者や教員の方々に開放致しますので、是非ご参加ください。

Speaker: Han Pu , Associate Professor of Physics and Astronomy Department, Rice University

Title: Adventures in the World of Ultracold Atoms

Abstract: Atoms can be cooled down to extremely low temperatures --- just one millionth degree above the absolute zero or even lower. Quantum mechanics reigns in this ultracold world. Cold atoms not only allow us to explore the fundamental laws of Nature, but also enable technological innovations with huge impact in our society. A salient feature of cold atoms is their controllability: Almost all relevant parameters (temperature, interaction strength, spatial dimensions, etc.) can be tuned in practice. As such, one can use cold atoms to realize novel quantum phases and to simulated other quantum systems that are much more complicated and difficult to control. In this talk, I will provide an introduction to the field of ultracold atomic physics, focusing on some of the recent works in my own group and also those carried out in the labs of my colleagues at Rice University.

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