

Physics Seminar

Bose-Einstein Condensates

Beginnings and Beyond

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**Friday
March 5
3:30pm
Ross 0220**

In 2001 the Nobel Prize in Physics was awarded to Carl E. Wieman, Eric A. Cornell, and Wolfgang Ketterle "for the achievement of Bose-Einstein condensation in dilute gases of alkali atoms, and for early fundamental studies of the properties of the condensates". The first true Bose-Einstein condensate (BEC) was created by Wieman and Cornell in 1995 at the University of Colorado in Boulder. Since that time many labs have successfully created BEC's using a variety of modifications to the original technique. This talk will give a brief introduction to BEC's, the initial technique used to create them, and one "all-optical" method for condensate formation.