

Presents ... Wednesday, February 4, 2009 12:00pm MIT Room 4-331



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"Effects of pressure and doping on iron arsenic based superconductors"

In this seminar I will review the recent discovery of superconductivity in the RFeAsO and AEFe2As2 compounds (R = rare earth and AE = alkali earth). Over the past year these FeAs-based materials have emerged as both promising and intriguing superconducting compounds.

In particular, I will focus on the effects of chemical substitution and applied pressure (hydrostatic and not) on the structural, magnetic, and superconducting phase transitions in these compounds.