

T_CSUH Special Seminar

Texas Center for Superconductivity at the University of Houston

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Brief Overview of Recent Developments on Iron-based Superconductors

Abstract

Superconductivity has always attracted considerable attention from people in various fields due to its striking quantum phenomena. The recent discovery of high-temperature superconductivity in the iron-based pnictide materials has made a significant impact in the field of condensed matter physics. The superconducting transition temperature has been quickly raised to about 55K and this novel superconductor does not belong to the same categories as those of known superconductors such as copper oxide high-T_c superconductors and conventional BCS-type superconductors. In this talk, I will give a very brief introduction to the recent research progress as well as a perspective on these new iron-based superconductors, in particular, the theoretical and experimental efforts toward cracking the mechanism.

Bio

Yan Chen is now a professor at Fudan University. He received his BS and Ph.D. in theoretical physics from Nanjing University in China. Thereafter he conducted postdoctoral research at the University of Houston (1998-2003) under the guidance of Prof. W. P. Su and Prof. C. S. Ting, respectively. Between 2003 and 2007, he was employed as research assistant professor as well as honorary assistant professor at the University of Hong Kong. Since then he moved to Fudan University as a professor of special appointment. His current research interests include high temperature superconductivity, exotic superfluidity in ultracold atoms, quantum entanglement and quantum phase transitions. He has published more than 40 papers in peer reviewed journals.

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