

Recent Advances in High-Temperature Superconductivity

Nai-Chang Yeh

After more than 15 years of intense research since the discovery of high-temperature superconductivity [1], many interesting physical phenomena unique to the cuprate superconductors are better understood, and various applications have been realized. However, the underlying mechanism for high-temperature superconductivity remains elusive, largely due to the complication of numerous competing orders in the ground state of the cuprates. We review some of the most important physics issues and recent experimental developments associated with these strongly correlated electronic systems, and discuss current understanding and possible future research direction.

1. INTRODUCTION

High-temperature superconducting cuprates are doped Mott insulators with numerous competing orders in the ground state [2-5]. Mott insulators differ from conventional band insulators in that the latter are dictated by the Pauli exclusion principle when the highest occupied band contains two electrons per unit cell, whereas the former are associated with the existence of strong on-site Coulomb repulsion such that double occupancy of electrons per unit cell is energetically unfavorable and the electronic system behaves like an insulator rather than a good conductor at half filling. An important signature of doped Mott insulators is the strong electronic correlation among the carriers and the sensitivity of their ground state to the doping level. In cuprates, the ground state of the undoped perovskite oxide is an antiferromagnetic Mott insulator, with nearest-neighbor Cu^{2+} - Cu^{2+} antiferromagnetic exchange interaction in the CuO_2 planes [6]. Depending on doping with either electrons or holes into the CuO_2 planes [6,7], the Néel temperature (T_N) for the antiferromagnetic-to-paramagnetic transition decreases with increasing doping level. Upon further doping of carriers, long-range antiferromagnetism vanishes and is replaced by superconductivity. As shown in the phase diagrams for the hole-doped (p-type) and electron-doped (n-type) cuprates in Fig. 1, the

superconducting transition temperature (T_c) first increases with increasing doping level (δ), reaching a maximum T_c at an optimal doping level, then decreases and finally vanishes with further increase of doping. Although the phase diagrams appear similar for both p-type and n-type cuprates, they are in fact not truly symmetric. For p-type cuprates in the under- and optimally doped regime, the normal state properties below a crossover temperature T^* are significantly different from those of Fermi liquid, and the electronic density of states (DOS) appear to be slightly suppressed [8]. These unconventional normal state properties are referred to as the pseudogap phenomenon [8]. Moreover, holes enter

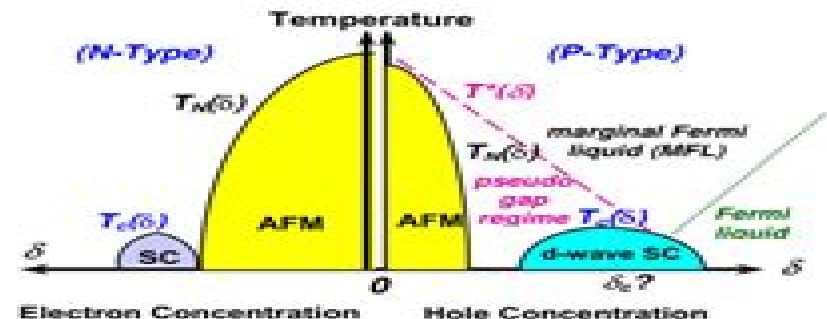


Fig. 1: Generic temperature (T) vs. doping level (δ) phase diagrams of p-type and n-type cuprates in zero magnetic field. (AFM: antiferromagnetic phase; SC: superconducting phase; T_N , T_c and T^ are the Néel, superconducting and pseudogap transition temperatures, respectively).*

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Advances In High Temperature Superconductivity

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Advances In High Temperature Superconductivity:

Advances In High Temperature Superconductivity D Andreone, R S Gonelli, E Mezzetti, 1993-03-30 *Advances in High-Tc Superconductors* John J. Pouch, 1993 This book points out the most recent developments in the young and exciting field of high temperature superconductors The contributed papers cover a large variety of different aspects of these materials such as physical and chemical properties fabrication and processing technology probing techniques and device technology *Studies of High Temperature Superconductors* A. V. Narlikar, 1990 CONTENTS Weak Coupling Theory of High Temperature Superconductors Investigations of a Few Novel Series of Thallium Cuprate Superconductors Showing Possible Change in the Sign of Charge Carriers with Composition Some Structural High Magnetic Field Studies of High Temperature Superconductors Fabrication of Bi Sr Ca Cu Oxide Superconductors with Controlled Numbers of Cu O Layers Characterization of High Temperature Superconductors by High Excitation Spectroscopies Mossbauer Spectroscopy of High Temperature Superconductors RVB Fabrication of 107k Superconducting Films Ion Beam Analysis of High T Superconductors Thermal Conductivity of High Temperature Superconductor A New Theoretical Approach to Electron Pairing And Uperconductivity in High T Superconductors High Resolution Polarized X Ray Absorption Spectroscopy Symmetry of the Hole States in High T Superconductors Phase Diagrams in the Y Ba Cu O System Index **Advances in Theoretical and Experimental Research of High Tc Superconductivity** Han Rushan, 2019 Researchers working at the frontier of high Tc Superconductors have reviewed the development in this area in the past 20 years Both experimental and theoretical aspects have been covered New directions and possible theoretical models were suggested The contributors of this book are from China Center of Advanced Science and Technology CCAST Institute of Physics Chinese Academy of Sciences CAS National Lab for Superconductivity Institute of Physics CAS School of Physics Peking University and Center of Advanced Study Tsinghua University This volume will be a useful guide to those who are working in the field *Advances in High Temperature Superconductors and their applications* S. MOHAN, 2019-06-20 Prof Heike Kamerlingh Onnes discovered superconductivity while measuring resistivity of mercury Surprisingly the resistivity of mercury ceased at 4.2 K and this phenomenon was known as superconductivity He realized the importance of this discovery in producing large magnetic fields It was realized that superconductivity is in a new thermodynamic state with peculiar electric and magnetic properties This paved the way to discover more superconductors Simple elements such as Tin Indium or lead showed the highest critical temperature T_c 7.2 K They were called as Type I superconductors Niobium nitride was found to superconduct at 16 K at 1941 and Vanadium silicon showed superconductive properties at 17.5 K at 1953 Nb alloys and binary or more complex compounds such as Nb₃Sn T_c 18 K Nb Ti Tc 9 K Ga V with T_c 23 K became type II superconductors Thereafter there was not much improvement in the development of superconductor although wonderful applications were expected from superconductors After three decades Fullerenes like ceramic superconductors are discovered A decade ago

MgB₂ was discovered with T_c 39 K. These superconductors were routinely produced into forms of wires for producing larger magnetic fields. In all these cases cooling was effectively done by liquid Helium. A comprehensive microscopic theory of superconductivity in metals was proposed in 1957 by John Bardeen, Leon Cooper, and Robert Schrieffer, the so-called BCS theory, for which they received the Nobel Prize in Physics. In a major breakthrough, George Bednorz and Karl Müller discovered a brittle ceramic superconductivity in the family of cuprates at 30 K in 1986, and a new era began. Inspired by the work of Bednorz and Müller on high-temperature superconductivity (HTS), Paul Chu and his associates at the University of Houston discovered 123 compounds, that is, YBCO (Yttrium¹ Barium² Copper³ Oxygen⁷) and isostructural RBCO (Rare earth¹ Barium² Copper³ Oxygen⁷), which have a T_c of 93 K. Prior to 1987, all superconducting materials had lower critical temperatures (T_c's) and therefore functioned only at temperatures near the boiling point of liquid helium (4.2 K) or liquid hydrogen (20.28 K), with the highest being Nb₃Ge at 23 K. They were known as low-temperature superconductors. YBCO was the first material to become superconducting above 77 K, the boiling point of liquid nitrogen, and subsequently a series of high-temperature superconducting materials were discovered. These superconducting materials are widely known as high-temperature superconductors, as their T_c's exceeded the limit prescribed by BCS theory. HTSCs are potentially valuable as liquid nitrogen is cheaper than liquid helium. YBCO possesses superior superconducting and physical properties. YBCO receiver coils in NMR spectrometers have improved the resolution of NMR spectrometers by a factor of 3 compared to that achievable with conventional coils. Paul Chu's group holds the current T_c record of 164 K in the mercury-barium-based cuprate superconductor under pressure. Their work led to a rapid succession of new high-temperature superconducting materials, ushering in a new era in material science, chemistry, and technology. Added to this, the structure of Bi₂Sr₂Ca₂Cu₂O₁₀ (BiSCCO), a high-temperature superconductive compound having T_c 110 K, was reported in 1993. Mercuric cuprates (perovskite ceramic superconductors) with transition temperatures (T_c) of 138 K were also reported.

Recent Developments in High Temperature Superconductivity Jan Klamut, 1996-09-17. This book contains review articles presenting the current status of high-temperature superconductivity research. The articles cover synthesis, issues, materials properties, and most fundamental theoretical problems. Applications of high-temperature superconductors are also reflected in several contributions. The book addresses researchers working in fundamental research in solid-state physics as well as engineers developing new materials for industrial applications. *AMSAHTS 1990: Advances in Materials Science and Applications of High Temperature Superconductors*, 1991.

Recent Advances and New Discoveries in High-temperature Superconductivity, 2010. **High Temperature Superconductivity 2** A. V. Narlikar, 2004. In contrast to the research on the fundamental mechanism of high-temperature superconductivity, the recent years have seen enormous developments in the fabrication and application of high-T_c superconductors. The two volumes of *High Temperature Superconductivity* provide a survey of the state of the technology and engineering applications of these

materials They comprise of extended original research papers and technical review articles written by physicists chemists materials scientists and engineers all of them noted experts in their fields The interdisciplinary and strictly application oriented coverage should benefit graduate students and academic researchers in the mentioned areas as well as industrial experts Volume 1 Materials focuses on major technical advancements in High Tc materials processing for applications Volume 2 Engineering Applications covers numerous application areas where High Tc Superconductors are making tremendous impact TOC HTS Applications Present and Future Prospects Application Fields of High Temperature Superconductors The Application of High Temperature Superconductors in Brushless AC Machines Current Status of High TC Superconducting Bulk Rotating Electric Motors Application A Motor with High Temperature Superconducting Levitation and Its Vibration Control Levitation Applications of High Temperature Superconductors Fields and Forces from Superconductors and Permanent Magnets Trends of Applications to High Tc Superconducting Power Transformers in Japan Applications of High Tc Superconductors to Superconducting Magnetic Energy Storage SMES Unrivalled Sensitivity Squids in Nondestructive Testing DC Squid Magnetometers from YBa₂Cu₃O₇ d for Biomagnetic Applications HTS Applications Progress in Squid Microscopy and High Resolution Non Destructive Evaluation Vortex Matter and Superconducting Electronic Devices HTS Microwave Filters Properties Design and System Applications Response Analysis and Modeling of High Temperature Superconductor Edge Transition Bolometers High Temperature Superconducting Cables

Studies of High Temperature Superconductors Anant Narlikar,1989

Advances in Superconductivity X Kozo Osamura,Izumi Hirabayashi,1998-06 The International Symposium on Superconductivity which has been held annually since 1988 is a forum for presenting the most up to date information about a broad range of research and development in superconductivity from fundamental aspects to applications More than 10 years have passed since the discovery of oxide superconductors and since various developments of applications began It may be said that the prospects for application of oxide superconductors recently have opened up Great progress has been made toward practical use for example of the flywheel which uses bulk materials and the high performance cryo cooled magnet made of bismuth wire These were the results of persistent efforts to develop materials from the viewpoint of materials science and engineering Also important is the progress in comprehensive understanding of high temperature superconductivity Unique electronic properties of cuprates such as the non Fermi liquid normal state spin charge separation spin gap and d wave symmetry were discussed at the symposium as were the unique electromagnetic properties resulting from the low dimensionality of cuprates In the field of new superconductors many exotic materials have been discovered since 1986 A decade of work with cuprate superconductors is reviewed in this proceedings and several of the newest materials are presented These papers will be instructive for many researchers and for students who are to enter this field

Studies of High Temperature Superconductors A. V. Narlikar,2006 This Golden Jubilee volume in the world s foremost series on superconductivity covers wide ranging topics capturing the current excitement in

the field The broad areas include the advancement of high T_c theory materials depicting unusual characteristics materials processing and defect structures for improved properties their electromagnetic response flux pinning Josephson junctions and devices and large scale applications

Advances in Superconductivity IX Sadao Nakajima, Masato Murakami, 1997-09 C axis Current I The 11 0 thick homoepitaxial film of 320 nm shows a very good surface flatness which suggests the unique 110 atomic plane helps 2 A 1 1 OJ dimensional epitaxial growth of YBCO films and shows excellent high T_c The resultant 1 0 surface morphology of YBCO is quite different Q R 270 1 60 m 0 from the 110 heteroepitaxial films of similar 0 0 0 thickness 11 In the case of heteroepitaxy _ 1 0 irrespective of c axis 12 or a axis oriented R 270 3 71 m 0 films 5 only thin films show flat surfaces g 0 0 T_c 92 3K which however give usually a degraded T_c due 1 0 v v I to lattice mismatching In conclusion we have 1 R 270 31 9 mO succeeded to grow high quality 11 0 YBCO YBCO film T_c 90 7 K 0 0 YBCO IIO 1 0 d YBCO thinfilms on 11 0 YBCO single crystal substrate Xtt u 1 0 substra substrates with very flat surfaces and high T_c s R 270 40 1 m 0 0 0 LLLLL J LL t J L T_c 9LWO L L K LLLLL L I I L L J L L I J 50 100 150 200 250 300 0

ACKNOWLEDGMENTS Temperature K One of the authors T U would like to thank Fig *Progress in High-Temperature Superconductors* ACerS (American Ceramics Society, The), 2004-03-28 The discovery of high temperature superconductivity almost two decades ago has been hailed as one of the most exciting advancements in modern physics However the full impact of high temperature superconductors HTS will only be realized with the success of large scale applications For most large scale bulk applications of HTS long length flexible wires that can carry a large amount of supercurrent are required

Scientific and Technical Aerospace Reports , 1989 **Advances in High Temperature Superconductivity D.** Andreone, 1993 **HTS Thin Film and More on Vortex Studies** A. V. Narlikar, 2005 HTS Thin Film More On Vortex Studies Advances in Research Applications *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents, 1995 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index New Developments in High Temperature Superconductivity J. Klamut, B.W. Veal, B.M. Dabrowski, P.W. Klamut, M. Kazimierski, 2008-01-11 This volume contains the proceedings of The Second Polish US Conference on High Temperature Superconductivity which was held August 18 21 1998 in Karpacz Poland The conference followed The First Polish US Conference on High Temperature Superconductivity organized in 1995 proceedings of which were published by Springer Verlag in 1996 Recent Developments in High Temperature Superconductivity Lecture Notes in Physics 475 High Temperature Superconductivity HTSC in complex copper oxides has become a household name after twelve years of intense research following its discovery in 1986 by J G Bednorz and K A Müller Because of the rapid growth of the HTSC field there is a need for periodic summary and condensation both for scientists working in the field and especially for young researchers entering the field of oxide materials Following the First Conference it was recognized that an extended format of lectures

perfectly satisfied that need providing adequate time for experts from the international community to fully introduce and develop complex ideas Thus the format of the Second Conference brought together by cooperating scientists from the Institute of Low Temperature and Structure Research of the Polish Academy of Science at Wroctaw Northern Illinois University and Argonne National Laboratory remained mostly unchanged Again we were delighted to receive enthusiastic responses from distinguished US and Polish scientists who were invited to participate *Monthly Catalogue, United States Public Documents ,1995*

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