

high-temperature superconductivity in perspective - high-temperature superconductivity in perspective project staff lionel s. johns, assistant director, ota energy, materials, and international security division peter d. blair, energy and materials program manager gregory eyring, project director laurie evans gavrin, analyst jane a. alexander, analyst administrative staff **concepts in high temperature superconductivity** - concepts in high temperature superconductivity e. w. carlson, v. j. emery, s. a. kivelson, d. orgad it is the purpose of this paper to explore the theory of high temperature superconductivity. much of the motivation for this comes from the study of the cuprate high temperature superconductors. however, our primary focus is on the **high temperature superconductivity: the explanation - arxiv** - high-temperature superconductivity of metallic oxides phys. rev. b 38925, c american physical society, 1988.) lecture, that in their ground-breaking search for high-tc superconductivity, they were stimulated and guided by the polaron model. their expectation was that if \tilde{c} an electron and a surrounding lattice distortion with a high **high-temperature superconductivity - resources ylor** - high-temperature superconductivity 2 under high pressure.[13] \tilde{f} recently, iron-based superconductors with critical temperatures as high as 56 \tilde{f} , k have been discovered.[14] [15] these are often also referred to as high-temperature superconductors. after more than twenty years of intensive research the origin of high-temperature superconductivity ... **high temperature superconductivity - after 20 years, where ...** - high temperature superconductivity - after 20 years, where are we at? michael norman materials science division argonne national laboratory norman and pepin, rep. prog. phys. (2003) norman, pines, and kallin, adv. phys. (2005) **high temperature superconductivity \tilde{c} "magnetic mechanisms** - superconductivity, and the possibility that magnetic correlations are responsible for certain types of superconductors. a central focus is on high temperature cuprate superconductivity and the important question of whether its d-wave pairing is caused by antiferromagnetic or singlet correlations. connected with this question is the much **high temperature superconductivity space experiment (htsse)** - high temperature superconductors hold great potential for the reduction of size, mass, and cost of satellite based microwave components and subsystems while at the same time offering dramatically improved performance. the high temperature superconductivity space experiment **theory of high-temperature superconductivity and effective ...** - text of high-temperature superconductivity we argue for a geometric reinterpretation of the hierarchy that exists between the ordinary critical temperatures for low-temperature superconductors and their high-temperature relatives. this geometric reinterpretation may point to a new effective gravitational physics which may be responsible, among ... **high temperature superconductivity: past, present and future** - perspective based on 24 years \tilde{c} ™ of our activity for high temperature superconductivity (hts) will be summarized. the superconductivity is deeply related with our social infrastructure, health and everyday life, and it is important to pursue sustained r&d activity. keywords: superconductor, superconductivity, cable, motor, magnet, wire **seminar 2: high temperature superconductivity** - superconductivity in a very unpredictable way. magnetic flux gets stable in a so-called pinning process when there is sufficient amount of impurities. the new ceramic oxide scs (high temperature scs, htscs) are type ii scs with very high critical fields. the h_{c2} of yttrium-barium-copper-oxide is 14 t at liquid nitrogen temperature **high temperature superconductivity, one atom at a time** - high temperature superconductors still rely on cooper pairs, just like their conventional counterparts. phonons, however, appear not to be responsible for the pairing, and researchers identify possible alternatives. some point to strong magnetic interactions in the materials. others argue that the physics of high temperature superconductivity is **high-temperature superconductivity pseudogap** - **vixra** - high-temperature superconductivity pseudogap an artistic representation of the data showing the breaking of spatial inversion and rotational symmetries in the pseudogap region of superconducting materials -- evidence that the pseudogap is a distinct phase of matter. [31] superconductivity is a state in a material in which there is no resistance to **interface**

high-temperature superconductivity - iopscience - the discovery of high-temperature superconductivity with a superconducting gap of ~ 20 meV in 1uc-fese/sto has stimulated tremendous interest in the superconductivity community, for it opens a new avenue for both raising superconducting transition temperature and understanding the pairing mechanism of unconventional high-temperature ...

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