THE NATIONAL HIGH MAGNETIC FIELD LABORATORY

REP©RTS

Contents

From the Chief Scientist's Desk: Previewing the 2000 NHMFL Annual Research Review	Proof of Interplane Coherence Using Cyclotron Harmonics in the Organic Superconductor β "-(BEDT-TTF) ₂ SF ₅ CH ₂ CF ₂ SO ₃ (Molecular Conductors) 7 Pressure Dependence of the Quantum Hall Effect of (TMTSF) ₂ ReO ₄ (Molecular Conductors) 8 Magnetotransport in High Purity Bismuth Crystals (Other Condensed Matter) 9 Anomalous Behavior of Spin Fluctuations in Polycrystalline NdBa ₂ Cu ₃ O ₇ (Superconductivity - Basic) 10
Resolution Enhancement in Solution NMR on the Keck Magnet by Intermolecular Zero-Quantum Detection and Matrix Pencil Estimation (Magnetic Resonance Techniques) 5	Closing the Pseudogap by Zeeman Splitting in Bi ₂ Sr ₂ CaCu ₂ O _{8+y} at High Magnetic Fields (Superconductivity - Basic) 11 Reorientation of Anisotropy at v=9/2 and
Carbon Isotopic Evidence for the Source and Fate of Dissolved Organic Matter in the Florida Everglades (Geochemistry)	11/2 in a Square Well Quantum Hall Sample Under a Tilted Magnetic Field (Semiconductors)122000 APS Fellows13Conference & Workshop Activity14

Published by: **National High Magnetic Field Laboratory** 1800 East Paul Dirac Drive Tallahassee, Florida 32310 Tel: 850.644.0311 FAX: 850.644.8350 Jack Crow **Director: Deputy Director:** Hans Schneider-Muntau **Director, Governmental & Public Relations:** Janet Patten **Editing and Writing:** Kathy Hedick, Ceci Bell Design and Production: Wally Thorner, Robert Burke, Kathryn Roberts



This document is available upon request in alternate formats for individuals with print-related disabilities. Contact Kathy Hedick for more information. If you would like to be added to our mailing list please write us at the address above, call 850-644-6392, or e-mail hedick@magnet.fsu.edu.

Cover art by: Robert Burke