1. Record Nr. UNINA9910300543403321

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Titolo	Electrodynamics of Quantum-Critical Conductors and Superconductors [[electronic resource] /] / by Uwe Santiago Pracht
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-72802-4
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XX, 176 p. 62 illus., 1 illus. in color.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	530.1433
Soggetti	Superconductivity Superconductors Mathematical physics Spectroscopy Microscopy Elementary particles (Physics) Quantum field theory Strongly Correlated Systems, Superconductivity Theoretical, Mathematical and Computational Physics Spectroscopy and Microscopy Elementary Particles, Quantum Field Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Doctoral thesis accepted by the University of Stuttgart, Germany".
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Field-Theoretical Basics of Superconductivity -- Experimental Studies of Disordered NBN -- Thin lms -- Experimental Studies of Granular Al Thin Films -- Experimental Studies of the Heavy -- Fermion Metal CeCoIn5.
Sommario/riassunto	This thesis presents and discusses recent optical low-temperature experiments on disordered NbN, granular Al thin-films, and the heavy-fermion compound CeCoIn5, offering a unified picture of quantum-critical superconductivity. It provides a concise introduction to the respective theoretical models employed to interpret the experimental results, and guides readers through in-depth calculations supplemented with supportive figures in order to both retrace the

interpretations and span the bridge between experiment and state-of-the art theory.