

1. Record Nr.	UNINA990008896570403321
Titolo	Annales Universitatis Mariae Curie-Sklodowska. Sectio C: Biologia
Pubbl/distr/stampa	Lublin, : Uniwersytet Marii Curie-Sklodowskiej
ISSN	0066-2232
Disciplina	547
Lingua di pubblicazione	Molteplice
Formato	Materiale a stampa
Livello bibliografico	Periodico
2. Record Nr.	UNINA9910300543403321
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Titolo	Electrodynamics of Quantum-Critical Conductors and Superconductors // 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 Spectrum analysis Microscopy Particles (Nuclear 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 Films -- Experimental Studies of Granular Al Thin Films -- Experimental Studies of the Heavy -- Fermion Metal CeCoIn ₅ .
Sommario/riassunto	This thesis presents and discusses recent optical low-temperature experiments on disordered NbN, granular Al thin-films, and the heavy-fermion compound CeCoIn ₅ , 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.