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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 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.

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