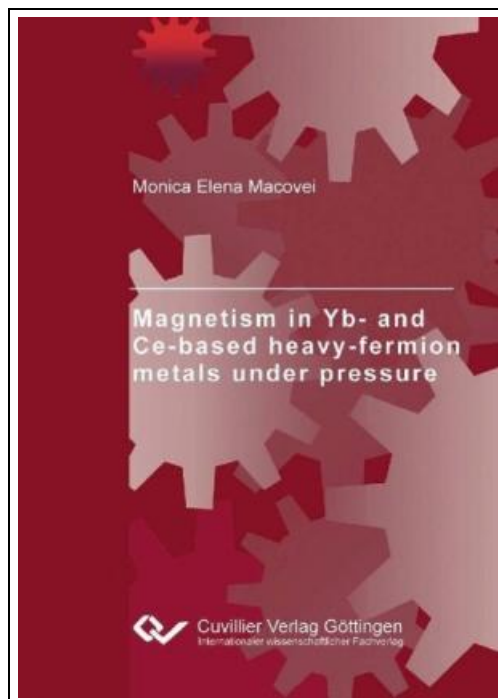


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MAGNETISM IN YB- AND CE-BASED HEAVY-FERMION METALS UNDER PRESSURE



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Cuvillier Verlag Jan 2011, 2011. Taschenbuch. Condition: Neu. Neuware - For more than 30 years the investigation of heavy-fermion (HF) metals has been one of the most fascinating and interesting fields in condensed matter physics both experimentally and theoretically. The HF phenomenon is observed in compounds containing rare-earth elements such as, e.g., Ce or Yb. The ground-state properties of these systems is considered to result from a competition between the Kondo effect and the Ruderman-Kittel-Kasuya-Yosida (RKKY) interaction. The Kondo effect induces a screening of the local 4f moments by the conduction electrons and, thus, favors a nonmagnetic ground state. By contrast, the indirect RKKY interaction promotes a magnetic ordering of the local moments. Therefore, depending on the strength of these interactions, the ground state of a HF compound ranges from paramagnetic (PM) to magnetically ordered. Even interplay between magnetism and superconductivity is observed in some materials. High-pressure experiments are of particular interest because for a given system the ground state can be tuned by external pressure (p). In the case of Yb-based Kondo-lattice systems, pressure stabilizes the magnetic state, while for Ce-based Kondo-lattice compounds pressure favors a non-magnetic ground state. Therefore, pressure is an ideal tool to tune a HF material through a zero-temperature magnetic instability in order to study quantum critical behavior in its vicinity. The present thesis addresses the effect of pressure, magnetic field, and temperature on the properties of the rare-earth compounds Yb(Rh_{0.94}Ir_{0.06})₂Si₂, YbIr₂Si₂, and CeRuPO. Electrical resistivity measurements under pressure have been performed in order to investigate the evolution of the ground-state properties and to search for the putative QCP supposed to exist in the studied HF materials. At atmospheric pressure, Yb(Rh_{0.94}Ir_{0.06})₂Si₂ does not order down to 20mK. Applying a small pressure, AFM order is observed at low temperatures. Upon further increasing pressure, the magnetic transition temperature increases,...



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