



Physikalisches Kolloquium

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»Helium-Three Fermi Liquid: new results in a model quantum system«

Einführung: H. v. Löhneysen

Liquid 3He is a well known model isotropic Fermi Liquid. The Landau parameters, determined from thermodynamical measurements as a function of the molar volume, were thought to be well known. This is not the case! Our measurements give a much lower effective Fermi temperature than former results. Also, the analysis of specific heat measurements with the PLTS-2000 temperature scale yields a substantial effective mass increase. Contrarily to former measurements, the F0a density dependence does not show accidents, or a saturation at high pressures, and the new data admit an excellent fit with density functional theories. Important conclusions can be drawn on the nature of the strongly interacting Fermi Liquid.

Freitag, 30.05.2008, 17 Uhr c.t.,

Universität Karlsruhe (TH), Otto-Lehmann-Hörsaal, Physik-Flachbau (Geb. 30.22).

Anschließend Nachsitzung im Gastdozentenhaus „Heinrich Hertz“