

Heavy fermion liquids vs. non-Fermi liquids: what's the difference?

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When discussing theoretically the itinerant magnets, almost localized Mott-Hubbard systems, and heavy-fermion systems, we start usually with Hubbard or Anderson-lattice models which, under specific conditions lead to the correlated electrons localization *i.e.*, reduce to the appropriate form of Heisenberg or Kondo-lattice model. The question is: when the fermionic system is a Fermi liquid and when it is not? I will try to answer qualitatively the question posed in the title by involving the concept of quantum critical point at the border of localization.

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