

Observation of magnetic coupling between the nuclei of liquid ^3He and the ^{141}Pr nuclei of PrF_3 crystalline powder

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Abstract

The resonance magnetic coupling between the nuclei of liquid ^3He and the ^{141}Pr nuclei of a fine-dispersed powder of PrF_3 Van Vleck paramagnet with the grain size below $45\ \mu\text{m}$ has been discovered at a temperature of 1.5 K with the use of a pulsed NMR technique. The magnetic specific heat of the corresponding spin systems is estimated theoretically. © 2007 Pleiades Publishing, Ltd.

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