

Low Temperature Physics 2015 vol.41 N1, pages 47-49

Comments on the cross-relaxation effect between adsorbed ^3He and PrF_3 nanoparticles

Alakshin E., Gazizulin R., Gazizulina A., Klochkov A., Orlinskii S., Rodionov A., Safin T., Safiullin K., Tagirov M., Zakharov M.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2015 AIP Publishing LLC. The spin kinetics data of ^3He in contact with PrF_3 and LaF_3 nanosized powders are reported. All experiments have been carried out by pulse NMR methods at temperature 1.5K. The analysis of obtained data testifies in favor of cross-relaxation presence in the nuclear spin-lattice relaxation data, which takes place between ^3He and ^{141}Pr nuclei.

<http://dx.doi.org/10.1063/1.4904446>
