

Turkish Journal of Physics

Turkish Journal

of

Physics



^{87}Rb NMR Relaxation and Vortex Dynamics in Rb_3C_{60}

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Abstract: ^{87}Rb NMR relaxation measurements in superconducting fullerene Rb_3C_{60} for various values of the external field are reported. In the normal state the results are in agreement with $T_1 T = \text{Constant}$. Below T_c , while no evidence of Hebel-Slichter peak is present in temperature dependence of T_1^{-1} , maxima are observed in (T_2^{-1}) at $T=22\text{K}$ characteristic of vortex field fluctuation. T_1 shows an anomalous field dependence not yet explained.

Turk. J. Phys., **24**, (2000), 587-592.

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