

## A stochastic model of muon spin relaxation for polyacetyrene

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We analyzed a stochastic model, proposed by Risch and Kehr (1992). The model consists of random walk for the translational motion of an electron along the polymer chain and hyperfine interaction between the electron and the muon located at the origin and Zeeman effect of external magnetic field. The muon spin relaxation was explicitly calculated in the form of Laplace transform, whose limiting cases of high and low magnetic fields are given.