$^{93}$Nb Nuclear Spin-Spin Relaxation in the Low-Dimensional Antiferromagnet Fe$_{0.25}$NbS$_2$

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$^{93}$Nb nuclear spin-spin relaxation has been examined in the low-dimensional antiferromagnet Fe$_{0.25}$NbS$_2$ between 4.2 K and 300 K. The relaxation is characterized by two $T_2$’s. The temperature dependence is discussed together with the origin of the disappearance of the fast decay at low temperatures.

Key words: NMR; $T_2$; Spin Dynamics; Fe$_{0.25}$NbS$_2$; Antiferromagnetism.