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^{27}Al NMR Measurements of YMn_4Al_8 MOOHEE LEE, Konkuk University, Seoul 143-701, Korea, K. H. KANG, B. J. MEAN, J. H. KIM, I. N. HYUN, Konkuk University, Seoul 143-701 Korea, B. K. CHO, GIST, Gwangjoo 500-712, Korea — We have performed ^{27}Al nuclear magnetic resonance (NMR) measurements on the single crystals of YMn_4Al_3. ^{27}Al NMR spectrum, Knight shift, spin-lattice and transverse relaxation rates, $1/T_1$ and $1/T_2$, were measured down to 4 K at 8 T. Experimental results of the Knight shift and the nuclear spin lattice relaxation rate as well as magneto-resistance and susceptibility are analyzed and discussed in conjunction with the pseudogap behavior in the spin excitation spectrum.

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