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**$^7\text{Li}$  NMR Study of  $\text{Yb}_4\text{LiGe}_4$ : A Possible Kondo Insulator**<sup>1</sup> M. J. GRAF, V. LANIO, Dept. of Physics, Boston College, Chestnut Hill, MA 02467, USA, P. CARRETTA, Dept. of Physics A. Volta, Univ. of Pavia, 27100 Pavia, Italy, YU. GRIN, S. PETER<sup>2</sup>, Max-Planck-Institut für Chemische Physik fester Stoffe, 01187 Dresden, Germany — We report on the temperature-dependent resistivity, magnetic susceptibility, and nuclear spin-lattice relaxation rate of polycrystalline  $\text{Yb}_4\text{LiGe}_4$ . The parent compound,  $\text{Yb}_5\text{Ge}_4$ , is known to be mixed valent. The increasing susceptibility and resistivity with decreasing temperature are consistent with a Kondo insulator. Measurements of the temperature dependent  $^7\text{Li}$  spin-lattice relaxation rate  $1/T_1$  show an increasing rate for decreasing temperature ( $T > 50$  K), followed by a broad maximum near 30 K. These results are discussed in light of the heavy-fermion like nature of the material.

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