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Magnetic Anisotropy in DyNi2B2C system W.C. LEE, Dept. of Physics, Sookmyung Women's Univ. Seoul 140-742, Korea — To figure out the magnetic and transport anisotropy in $DyNi_2B_2C$ which have superconducting critical temperature T_c lower than the antiferromagnetic Neel temperature T_N among RNi_2B_2C (R= rare earth elements) compounds, we have measured the static magnetization curves M(H,T) with the applied magnetic fields parallel and perpendicular to the crystallographic c-axis at various temperatures and applied magnetic fields. We have observed several magnetic transitions only for the applied magnetic field perpendicular to the c-axis and such magnetic transitions have shift sensitively to the higher temperature regions. We compared our results with the Dy^{+3} magnetic sublattice structure previously reported from neutron scattering experiments

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