

**<sup>93</sup>Nb NMR INVESTIGATION OF VORTEX- GLASS TRANSITION IN LAYERED NbSe<sub>2</sub>**

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We report a detailed low temperature investigation of vortex glass transition in layered superconducting compound NbSe<sub>2</sub> using <sup>93</sup>Nb NMR at fields below H<sub>c2</sub>. Preliminary measurements show that the spin-lattice relaxation rate 1/T<sub>1</sub> demonstrates a classic Korringa behavior 1/T<sub>1</sub> ~ T above the superconducting transition T<sub>c</sub>, consistent with previous measurements on this compound. However, for fields perpendicular to the layers, we observed that 1/T<sub>1</sub> exhibits an anomalous plateau between T<sub>c</sub> (H=0) and T<sub>c</sub>(H) and a suppression of the superconducting enhancement expected below T<sub>c</sub>. In addition, a power law behavior, 1/T<sub>1</sub> ~ T<sup>1.2</sup> below T<sub>c</sub> down to 360mK was observed which suggests a strong anisotropy in the low energy excitations. However, the possibility of enhancement in 1/T<sub>1</sub> due to vortex fluctuations which competes with electronic mechanisms cannot be excluded. The implications of these results with regards to vortex-glass transition will be discussed.

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