

# Studies of superfluid low temperature phase of $^3\text{He}$ in “ordered” aerogel

V.V. Dmitriev, E.E. Efimenko, A.A. Senin, A.A. Soldatov, E.V. Surovtsev, and A.N. Yudin

Kapitza Institute, Russian Academy of Sciences, Moscow, Russia

We present the results of NMR experiments with low temperature phase (LTP) of superfluid  $^3\text{He}$  in “ordered” aerogel. This aerogel is strongly anisotropic: it consists of strands which are nearly parallel to each other.<sup>1,2</sup> Two aerogel samples with different densities ( $9\text{ mg/cm}^3$  and  $38\text{ mg/cm}^3$ ) and diameters of strands (6 nm and 10 nm correspondingly) were used. Experiments were performed in different orientations of magnetic field using both pulse and continuous wave NMR techniques. The results obtained allow us to assume that the order parameter of the LTP has Balian-Werthamer order parameter with strong polar distortion. The comparison of the experimental results with our theoretical model is presented.

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