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## OBSERVABILITY OF PARAMAGNETIC ACOUSTIC RESONANCE IN LIQUID CRYSTALS.

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## Abstract

The observability of paramagnetic acoustic resonance in liquid crystals was studied. The resonance change in the penetration depth of an ultrasonic shear wave in a nematic liquid crystal, and the ultrasound resonance absorption coefficient in a smectic A liquid crystal, were calculated in the hydrodynamic approximation. The conditions for observability of the effect were determined.