

# TUNABLE SUB-TERAHERZ RANGE FABRY-PEROT RESONATOR BASED ON WEAK FERROMAGNETS

## Abstract Content

New perspective sub-terahertz range Fabry-Perot resonator based on weak ferromagnet – metal structure was proposed. The main parameter of such resonator was calculated within the framework of the two sublattice model of weak ferromagnet with “easy plane” anisotropy type described by Landau-Lifshitz equation with relaxation in Gilbert form for single crystalline hematite and iron borate high quality crystal. Such resonator can operate at external magnetic field ~1 kOe. Developed model can be used for calculations on resonator with multi-layered structures.

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