

## Electronic Tuning with Non-Linear Dielectrics

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Since dielectric materials inserted into a resonator cavity cause a permittivity- There are a number of dielectric materials which might be suitable for this application, but none have been sufficiently well studied in low-temperature, high magnetic field environments. The key issue is whether the necessary level of tunability can be achieved without prohibitively large energy dissipation. We are planning to test several materials and fabricate a prototype resonator.

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