

FIG. 1. Frequency swept ultra-low field EDMR. The amplitudes have been normalized. (a) B_0 set to 0.2 mT, (b) B_0 set to 0.3 mT, (c) B_0 set to 0.4 mT, and (d) B_0 set to 0.5 mT. It is clear that the MPTs are dependent on both B_0 and B_1 . The MPTs occur at integer divisions of the RF resonant frequency. The n = 3 transition is observed for B, at 0.10 mT. The n = 2 transition is observed for $B_1 \ge 0.06$ mT.

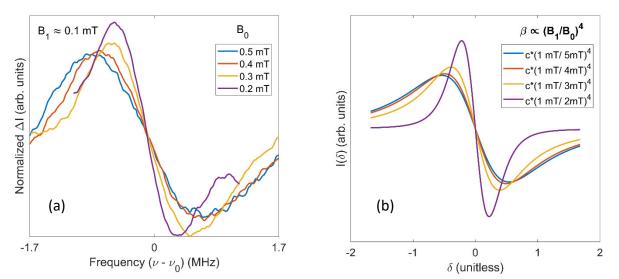


FIG. 2. (a) Two-photon line shape as a function of B_0 illustrating spectral narrowing with a decrease in B_0 . (b) Simulated two-photon transition using $I(\delta) \propto 1/(1 + \beta^2 \delta^2)$ where $\beta \propto (B_1/B_0)^4$ is a dimensionless parameter describing the drive and δ is a dimensionless parameter describing the detuning [3].