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Ferromagnetic Resonance in FeZrN[1] ANIMESH CHAKRABORTY, Ohio State University, PRASANTA DUTTA, MOHINDER SEEHRA, West Virginia University, KEITH MOUNTFIELD, Carnegie Mellon University — We report here the in-plane ferromagnetic resonance in FeZrN . The parameters measured were intensity I_0, linewidth ΔH, and resonance field H_r.The FMR studies were performed using a conventional X-band (μ=9.1 GHz) ESR spectrometer equipped with a TE_{011}cavity. The samples about 3 m.m. by 3 m.m were placed onto a quartz sample holder, put into the cavity and held in either parallel or perpendicular orientation to the sample plane of the applied magnetic field. The samples were prepared by R.F. sputtering with Zr chips bonded to the target. The films were approximately 0.4 micron thick on glass substrates.

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