

CermitESR\_frflLoop(B0, B1, cantilever, f\_rf, grid, h, magnet, mw\_x\_0p, sample)  
returns: df\_spin  
graph: cornell\_esr\_graph  
handler: MemHandler  
modifiers:  
- replace\_component({'magnet': ['Bz\_method', 'Bzxx\_method'], 'sample': ['J', 'Gamma', 'spin\_density', 'temperature', 'dB\_sat', 'dB\_hom'], 'grid': ['grid\_array', 'grid\_shape', 'grid\_step', 'grid\_voxel', 'extend\_grid\_method'], 'cantilever': ['dk\_to\_df\_ac\_cermit']})

Simulates a Cornell-style frequency shift magnetic resonance force microscope experiment in which microwaves are applied for half a cantilever cyclic to saturate electron spin resonance in a bowl-shaped region swept out by the cantilever motion.

