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Magnetic resonance force microscopy with a paramagnetic probe

G.P. Berman, V.N. Gorshkov, V.I. Tsifrinovich

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Highlights

- We consider extension of magnetic resonance force microscopy replacing a ferromagnetic probe with a paramagnetic one.
- We analyze the dynamics of the interacting magnetic moments on a probe and a sample.
- We have found a proper sequence of electromagnetic pulses which provide a significant deflection of the cantilever.

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