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Physikalisches Kolloquium

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HS KPH

Prof. Dr. Ingo Rehberg
University of Bayreuth

Magnetic Marbles' Mantras: Dipole Clusters, Catastrophe Machines, and Irrational Gears

Spherical magnets are an invaluable but affordable physics toy! While vividly demonstrating chemical, physical and mathematical problems, they can also greatly inspire creativity: Questions concerning the favoured state of dipole cluster configurations lead – via an encounter with tipping points – to the invention of magnetic gears based on degenerate continua. Open source animations and patent-free hardware to play with shall garnish this triptychon.

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