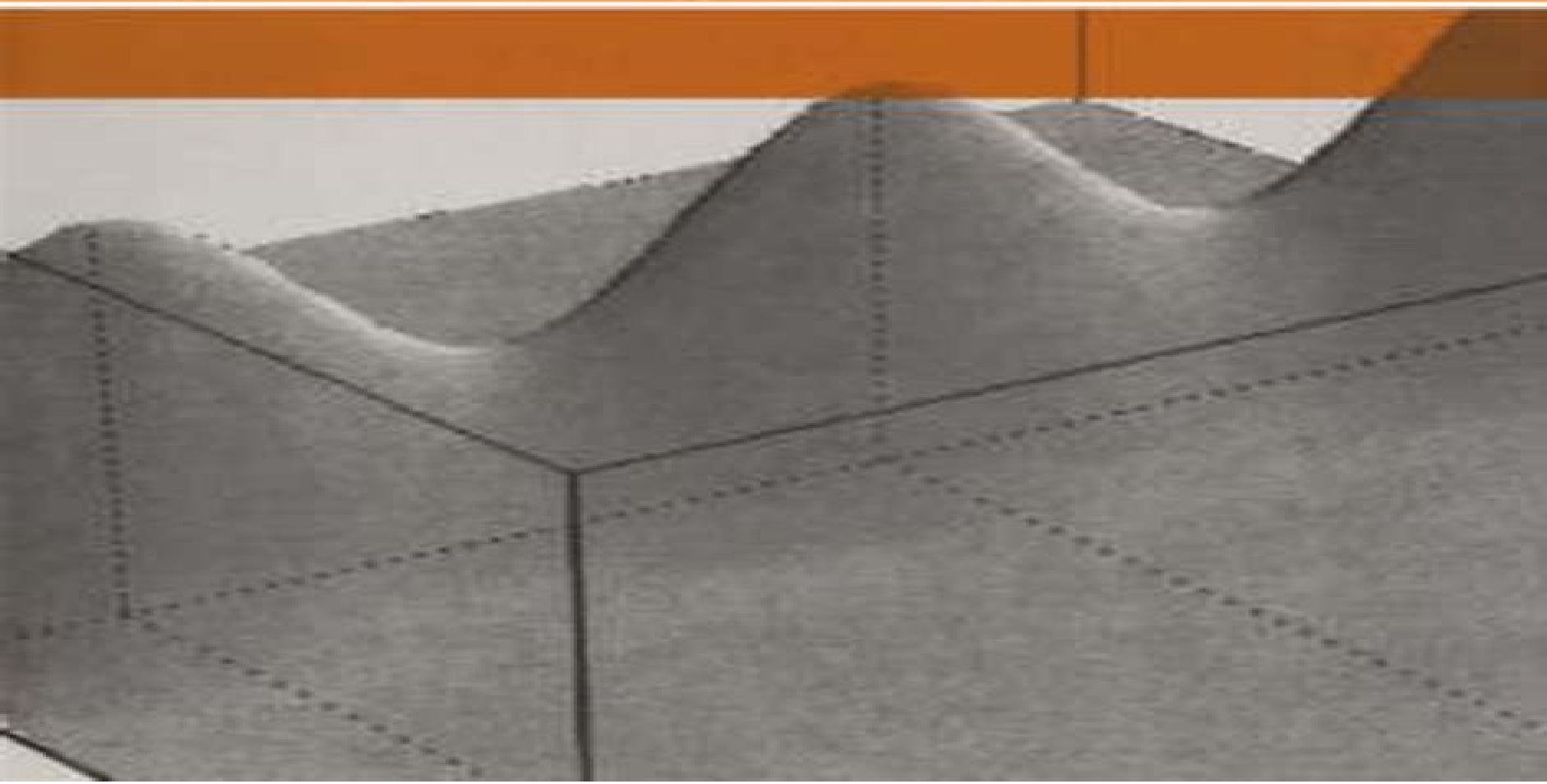


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# Macroscopic Quantum Tunneling of the Magnetic Moment

Eugene M Chudnovsky and Javier Tejada



# Macroscopic Quantum Tunneling

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using the classical phenomena of thermal activation and resonant activation Theoretical predictions are compared with the experimental results showing good agreement with no adjustable parameters the tunneling rate in the moderately damped Q almost equal to 1 junction is seen to be reduced by a factor of 300 from that predicted for an undamped junction The phase is seen to be a good quantum mechanical variable The experiments on small capacitance tunnel junctions extend the measurements on the larger area Josephson junctions from the region in which the phase variable has a fairly well defined value i.e. its wavefunction has a narrow width to the region where its value is almost completely unknown The charge on the junction becomes well defined and is predicted to quantize the current through the junction giving rise to the Coulomb blockade at low bias I present the first clear observation of the Coulomb blockade in single junctions The electrical environment of the tunnel junction however strongly affects the behavior of the junction higher resistance leads are observed to greatly sharpen the Coulomb blockade over that seen with lower resistance leads I present theoretical descriptions of how the environment influences the junctions comparisons with the experimental results are in reasonable agreement

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The Quantum Challenge George Greenstein, Arthur Zajonc, 2006 The Quantum Challenge Second Edition is an engaging and thorough treatment of the extraordinary phenomena of quantum mechanics and of the enormous challenge they present to our conception of the physical world Traditionally the thrill of grappling with such issues is reserved for practicing scientists while physical science mathematics and engineering students are often isolated from these inspiring questions This book was written to remove this isolation

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