Distribution of demagnetization field in paramagnetic materials with spherical sample geometries

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— A general method for the calculation of distribution of demagnetization field in paramagnetic materials is described, and the demagnetization field is calculated for samples with spherical geometries. The results show high non-uniformity for the demagnetization field inside the sample depending on the sample aspect ratio and the direction of the externally applied magnetic field.

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Date submitted: 16 Feb 2011  Electronic form version 1.4