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### ON THE POSSIBILITIES FOR A METHOD TO FACILITATE MEMBRANE TRANSPORT STUDIES BASED ON BULK MAGNETIC SUSCEPTIBILITY DIFFERENCES AND NMR

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Differences in compartmental bulk magnetic susceptibility can be used to distinguish spins. Large differences in magnetic Susceptibility can arise by selective addition of "Susceptibility reagents". The NMR detection sensitivity depends on the compartmental location of the observed molecule<sup>1</sup> and, among the several factors, suitable choice of paramagnetic concentration can eliminate external signals. In a method as per the recent report<sup>2</sup> on Demagnetization Factor calculations there seems to be an in-built possibility for mapping the induced-field pattern in uniformly magnetized, and, even, arbitrarily shaped specimens. A consideration for tapping this potential for membrane transport studies by NMR is being envisaged.

1. "NMR Studies on Membrane Transport" by B.P. Hills and P.S. Belton in Annual Reports on NMR Spectroscopy Ed. G.A. Webb Vol. 21, p. 140 (1989).
2. "On the possibilities of Calculating Demagnetization Factors by Lattice-Sum Method Consideration" Paper presented by S. Aravamudhan at the 5th NMRS Symposium, IIP, Dehradun (1999).

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