

## Project Applications of Effective Medium Theory

This project aims at demonstration of new possibilities provided by the interpretation of the measured signal in terms of the Effective Medium Theory (EMT). We begin with measurements in blood, motivated by the initial EMT application to experimental data [link to paper 2008]. The aim is to develop methods for evaluating the amount and spatial distribution of paramagnetic substances (Gadolinium, ferritin, deoxyhaemoglobin) in different tissues in vivo.

Initiating publication

- DS Novikov, VG Kiselev.  
[Transverse NMR relaxation in magnetically heterogeneous media \(2008\)](#)  
Journal of Magnetic Resonance 195 (2008) 33-39

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