

Magn. Reson. Discuss., community comment CC1
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Comment on mr-2021-56

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Community comment on "Selective excitation enables encoding and measurement of multiple diffusion parameters in a single experiment" by Neil MacKinnon et al., Magn. Reson. Discuss., <https://doi.org/10.5194/mr-2021-56-CC1>, 2021

This is an excellent and well written paper for the NMR community regarding the use of NMR for diffusion measurement.

In the past, the measurements of molecular diffusion require multiple experiments with different parameter for optimization. In this case, the Authors use a single measure to measure multiple parameter, providing a significant time saving.

Here is a couple of questions

- 1) Have the author try to use this measurement in liquid crystal environment to evaluate anisotropic diffusion tensors?
- 2) How realistic to use this sequence to extract diffusion tensor and map out the orientation of its environment.