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Magn. Reson. Discuss., community comment CC1
https://doi.org/10.5194/mr-2021-56-CC1, 2021

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 mesurements of molecular diffusion require mulitple experiments with different parameter for optimization. In this case, the Aurhtors use a single measure to measure mulitple parameter, providing a significant time saving.

Here is a couple of questions

1) Have the author try to use this measurment in liquid crystal enviroment to evaluate anisotropic diffusion tensors?

2) How realistlic to use this sequence to extract diffusion tensor and map out the orientation of its environment.