

Dear Authors of the manuscript ***Strategies to identify and suppress crosstalk signals in DEER experiments***

After careful reading your revised manuscript (including the revised Supporting Information), your detailed answers to the initial comments of both reviewers and the new comments of both reviewers I decided that your work will be finally accepted as article in Magnetic Resonance if you make the following minor revisions on your manuscript (based on the following objective and constructive remarks and suggestions of both reviewers):

- 1) Please change the title of your manuscript to: *Strategies to identify and suppress crosstalk signals in DEER experiments of Gd(III)-nitroxide spin labeled samples.*
- 2) Please correct Figure 2B 4th column accordingly
- 3) Please add in the SI in chapter B. 3.1. an additional Figures showing one representative T1 time traces for NO and for Gd(III).
- 4) Please rename chapter B. 3.2. in the SI to *Translational relaxation time* and define the shown values in Figure S2 as *Tm10%*
- 5) Please add a sentence of the expected linearity of AWG percentage to final output microwave power after amplification somewhere in the text.

All other comments made by reviewer 2 are to my opinion not appropriate and have not to be addressed in the final version of the manuscript (or are already satisfactorily addressed in the revised version of the manuscript).