

Magn. Reson. Discuss., author comment AC3
<https://doi.org/10.5194/mr-2021-18-AC3>, 2021
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Reply on RC3

Sven Jovanovic et al.

Author comment on "An electrochemical cell for in operando ^{13}C nuclear magnetic resonance investigations of carbon dioxide/carbonate processes in aqueous solution" by Sven Jovanovic et al., Magn. Reson. Discuss., <https://doi.org/10.5194/mr-2021-18-AC3>, 2021

Dear reviewer,

thank you for your remarks!

- The sample was not rotated. A common Bruker "spinner" needs to be used in order to achieve a proper vertical position of the cell. The purpose of the "spinner" is to hold the sample in a certain vertical position, but no physical spinning was performed. Directly inserting an NMR tube with a spinner into the probe was found to be mechanically unstable. Therefore we dismantled the turbine of an NMR lift (the part of the lift where spinner+sample are sliding down) and fixed it onto the probe head. This way, the NMR tube with the spinner can be inserted into the probe just as commonly done when using the lift system. We are going to clarify this procedure/setup in our revision.
- The references will support our discussion regarding figure 4.

Kind regards,
Sven Jovanovic