

Magn. Reson. Discuss., author comment AC1  
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## Reply on RC1

Malcolm H. Levitt and Christian Bengs

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Author comment on "Hyperpolarization and the physical boundary of Liouville space" by  
Malcolm H. Levitt and Christian Bengs, Magn. Reson. Discuss.,  
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- The referee is correct about the mis-numbering of the terms in line 58. This will be corrected.
- The term "zero-quantum" in line 75 does require explanation. The term is used here to indicate that only operators that may be expressed as combinations of populations for the Zeeman states are considered here. This does require clarification and that will be done in the revised manuscript.