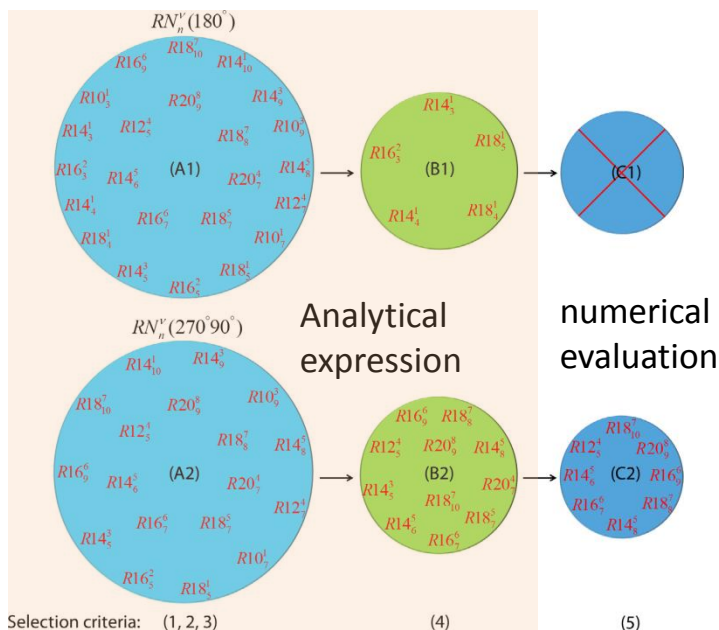


How to select appropriate symmetry numbers?

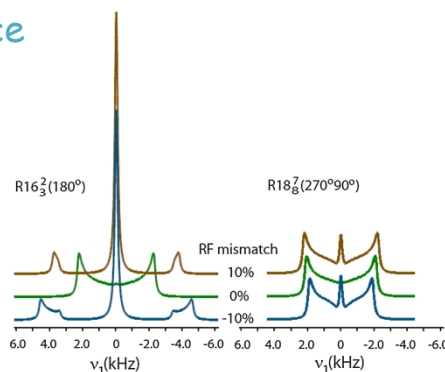
Here is an example how to choose appropriate symmetry numbers. We focus on ^1H chemical shift anisotropy (CSA) recoupling at ultrafast MAS. The sequence should be satisfy the following conditions:

- (1) ^1H CSA is recoupled at 1st order.
- (2) ^1H - ^1H dipolar and ^1H isotropic chemical shift are decoupled.
- (3) RF field amplitude is kept below 200 kHz at a MAS rate of 70 kHz.
- (4) a large scaling factor is desired.
- (5) the effect of RF field inhomogeneity is minimized.

Selection of symmetry numbers



Comparison of performance



M.K. Pandey, M. Malon, A. Ramamoorthy, Y. Nishiyama, J. Magn. Reson. 250 (2015) 45-54.