Erratum: “A general framework to quantify the effect of restricted diffusion on the NMR signal with applications to double pulsed field gradient NMR experiments” [J. Chem. Phys. **130**, 104702 (2009)]

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In Ref. 1 two equations have errors. Equation (24) should read

$$X_{km,k'm'} = r_0 \delta_{m,m' \pm 1} \beta_{km} \beta_{k'm'} \frac{\alpha_{km}^2 + \alpha_{k'm'}^2 - 2mm'}{(\alpha_{km}^2 - \alpha_{k'm'}^2)^2} \quad (1)$$

and Eq. (30) should have been

$$Y_{km,k'm'} = i r_0 (\delta_{m,m'-1} - \delta_{m,m'+1}) \times \beta_{km} \beta_{k'm'} \frac{\alpha_{km}^2 + \alpha_{k'm'}^2 - 2mm'}{(\alpha_{km}^2 - \alpha_{k'm'}^2)^2}. \quad (2)$$

Note that these results are obtained starting from the basis functions given by

$$u_{km}(r, \phi) = \frac{\beta_{km}}{\sqrt{\pi} J_m(\alpha_{km})} J_m(\alpha_{km} r) e^{im\phi}, \quad (3)$$

where the index m takes all integer values including the negative ones.

Alternatively, one could employ functions whose angular parts are $\cos m\phi$ and $\sin m\phi$, where m is any natural number. The elements of the corresponding matrices are available upon request. In either case, matrices larger than those prescribed originally² have to be constructed if the gradient waveform features differently oriented pulses.

The above corrections affect neither the results nor the conclusions of Ref. 1.

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¹E. Özarslan, N. Shemesh, and P. J. Basser, *J. Chem. Phys.* **130**, 104702 (2009).

²D. S. Grebenkov, *Rev. Mod. Phys.* **79**, 1077 (2007).

³F. B. Laun, *J. Chem. Phys.* **137**, 044704 (2012).

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