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Equation (47) of the article has a small typographical error. In the second binomial coefficient $\alpha$ must be replaced by $\beta$. The correct equation for the $d$ functions is

$$d_{m'm}^d(\theta) = (-1)^k \binom{2j-k}{k+\beta}^{1/2} \binom{k+\beta}{\beta}^{-1/2} \left( \sin \frac{\theta}{2} \right)^{\alpha} \left( \cos \frac{\theta}{2} \right)^{\beta} P_k^{\alpha,\beta} \cos \theta,$$

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