## Erratum for: Franck-Condon factors by counting perfect matchings of graphs with loops

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Equation before Eq. (47) of Ref. [1] reads

$$\langle \boldsymbol{n}_{\text{final}} | \boldsymbol{m}_{\text{in}} \rangle = \langle \boldsymbol{n} | \hat{\mathcal{U}}(\boldsymbol{O}_{\boldsymbol{L}}^{T}) \hat{\mathcal{S}}(\log(\boldsymbol{l})) \mathcal{U}(\boldsymbol{O}_{R}) \hat{\mathcal{D}}(\boldsymbol{d}/\sqrt{2}) | \boldsymbol{m} \rangle.$$
(1)

It should read

$$\langle \boldsymbol{n}_{\text{final}} | \boldsymbol{m}_{\text{in}} \rangle = \langle \boldsymbol{n} | \hat{\mathcal{D}}(\boldsymbol{d}/\sqrt{2}) \hat{\mathcal{U}}(\boldsymbol{O}_{\boldsymbol{L}}^{T}) \hat{\mathcal{S}}(\log(\boldsymbol{l})) \mathcal{U}(\boldsymbol{O}_{R}) | \boldsymbol{m} \rangle.$$
(2)

This also implies that one does not need to take the Hermitian adjoint in the same equation to move the displacement to the left-hand side of the inner product. Thus this equation when amended with the correction presented here is already in the form of equation (47) albeit with the indices m and n switched.

[1] Nicolás Quesada. Franck-condon factors by counting perfect matchings of graphs with loops. *J. Chem. Phys.*, 150(16):164113, 2019. doi: 10.1063/1.5086387. URL

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