from linearalgebra import tr

$$\mathcal{J}_3 = \mathbb{1}_{3,3}$$

$$k\_angle(D_m) = 3\left(\sqrt{2}v\right)^{\frac{2}{3}}\left(\frac{7}{4}\|D_m\|_F^2 - \frac{1}{4}tr\left(\mathcal{J}_3 D_m{}^T D_m\right)\right)^{-1}$$

where

$$D_m \in \mathbb{R}^{3\times3}$$

$$v \in \mathbb{R}$$