from linearalgebra import tr

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

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

where

- $D_m \in \mathbb{R}^{3\times 3}$

- $v \in \mathbb{R}$