1 Escaped radial configuration

This configuration is given by:

$$\hat{\mathbf{n}} = \begin{bmatrix} \cos\varphi \sin\beta \\ \sin\varphi \sin\beta \\ \cos\beta \end{bmatrix} \tag{1}$$

with

$$\beta = 2 \arctan\left(\frac{r}{R}\right) \tag{2}$$

φ the azimuthal angle, r the radial distance from the cylinder axis, and R the cylinder radius.