

More Notes on Rotation chap:appendix<sub>rotationist</sub>

Metrics on 3 The three different rotation metrics can be related to the angular (or geodesic) metric, *ang*, as follows,

$$\text{align } \text{ang}(R_a, R_b) = R_a R_b^T$$

Given a set of rotations parametrized by unit quaternions  $\{q_i\}_{i=1}^n$ , equation  $\text{ang} = \sum_{i=1}^n \text{ang}(q_i, q_i)$ ,