

 $\exp(oldsymbol{\xi}_{gi}^\wedge)$ $\exp(oldsymbol{\xi}_{gj}^\wedge)$

$$oldsymbol{\xi}_{gi} \sim \mathcal{N}(\mathbf{0}, oldsymbol{\Sigma}_{gi})$$
 $oldsymbol{\xi}_{gj} \sim \mathcal{N}(\mathbf{0}, oldsymbol{\Sigma}_{gj})$

Jointly Characterizing Pose Uncertainty
$$oldsymbol{\Sigma}_{gi} \quad oldsymbol{\xi}_{gi} \quad oldsymbol{\xi}_{gj}$$
 $oldsymbol{\xi}_{gi} \quad oldsymbol{\xi}_{gj}$
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 $oldsymbol{\xi}_{gi} \quad oldsymbol{\Sigma}_{gj} \quad oldsymbol{\Sigma}_{gj}$