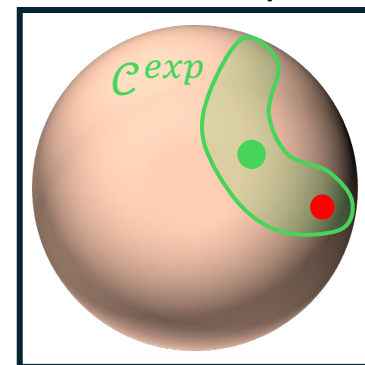


Lie Group



$$\mathbb{P}(\bullet \in \mathcal{C}^{exp}) \geq (1 - \alpha)$$

State-Space EKF + CP

CLAPS (ours)

$$\mathbb{P}(\bullet \in \mathcal{C}^q) \geq (1 - \alpha)$$

C-Space Boundaries

Overly-conservative

More Efficient