

$$\langle \mathbf{R}_x, \mathbf{t}_x \rangle_{\text{SE}(n)} \langle \mathbf{R}_y, \mathbf{t}_y \rangle = \langle \mathbf{R}_x \mathbf{R}_y, \mathbf{R}_x \mathbf{t}_y + \mathbf{t}_x \rangle$$