$\mathbf{x}_0^{\mathcal{C}} = [0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 1.000]$ and
$\mathbf{x}_1^{\mathcal{C}} = [0.600, 0.600, 0.050, -0.183, -0.183, 0.000, 0.966]$

- pose uncertainty at p0
- point cloud without noise
- point cloud with noise at p_0
- uncertainty ellipsoid
- pose uncertainty at p1
- point cloud with noise at p_1
- uncertainty ellipsoid