

G semi-simple non-cpt

$$\mathfrak{g} = \mathfrak{k} + \mathfrak{p}$$

$\mathfrak{k} \rightarrow \mathfrak{u}(\mathfrak{p}) \Rightarrow K \ltimes \mathfrak{p}$ semi-direct product

$K \subset G_0 = K \ltimes \mathfrak{p} \rightarrow \mathbb{K} G_0 = \mathfrak{p}$ eucl symm space

$$\lambda \in \mathfrak{p}^\dagger$$

conical $N_\lambda(x) = e^{i\lambda x}$

$$\text{spherical } \mathcal{J}_\lambda(x) = \int_{dk}^K e^{i\lambda \text{Ad}(k)x}$$

Clerc/AdvM 66(87)/Bessel