

$$L^2\left(U/K\right) =\sum_{\pi\in\hat{U}_K}L^2_{\pi}\left(U/K\right)$$

$$\hat{U}_K=\frac{\pi\in\hat{U}}{H^K_{\pi}\neq 0}$$

$$\Phi_{\pi}\in H^K_{\pi}\text{ spherical function}$$

$$\Omega_{\pi}\in H_{\pi}\text{ conical function=highest weight}$$

$$^{\circ}\Omega_{\pi}=1$$

$$K\cdot\mathfrak{o}=\mathfrak{o}$$

$$\Phi_{\pi}=\int\limits_{dk}^K\Omega_{\pi}\ltimes k$$

$$^{\circ}\Phi_{\pi}=1$$