

$$S_\ell^{\mathbb{C}} = \begin{cases} z \in B \\ \operatorname{rk} z \leqslant \ell \end{cases} = \bigcup_u^{S_\ell} B_u^1 = \bigcup_v^{S_r - \ell} B_v^0$$

$$\gamma\underset{\ell}{\star}\tau=\int\limits_{du}^{B_u^1\widehat{\gamma}}\underset{B_u^1}{\star}\underbrace{T_u^{1B_u^1\widehat{\gamma}}\tau}_{\nu}=\int\limits_{dv}^{B_v^0\widehat{\gamma}}\underset{B_v^0}{\star}\underbrace{T_v^{0B_v^0\widehat{\gamma}}\tau}_{\nu}$$

$$u\in S\Rightarrow z\in S_\ell^{\mathbb{C}}\xrightarrow[\operatorname{invol}]{(\cdot)^u}S_\ell^{\mathbb{C}}\ni z^u=u^*z$$