

$$\beta \in {}^H\lrcorner G\lrcorner {}^H\beta_{\triangleleft}\mathbb{C}$$

$${}^H\lrcorner G_{\triangleleft^2}\mathbb{C} \stackrel{\beta^\sharp}{\longleftarrow} {}^H\lrcorner G_{\triangleleft^2}\mathbb{C}$$

$$\text{proj}$$

$$\widehat{{}^{Hg}\beta^\sharp\mathfrak{I}}=\int\limits_{d\gamma}^{{}^H\lrcorner G}{}^{Hg}\beta_{H\gamma}{}^{H\gamma}\mathfrak{I}=\int\limits_{d\gamma}^{{}^H\lrcorner G}{}^{Hg\gamma^{-1}}\beta{}^{H\gamma}\mathfrak{I}$$

$${}^{Hg}\beta_{H\gamma} = {}^{Hg\gamma^{-1}H}\beta \text{ reprod kernel}$$

$$\mathfrak{I}_{\beta}\overline{\mathfrak{I}}=\mathfrak{I}\overline{\mathfrak{I}}\underbrace{\beta^\sharp\mathfrak{I}}=\int\limits_{dg}^{{}^H\lrcorner G}{}^{Hg}\overline{\mathfrak{I}}\widehat{{}^{Hg}\beta^\sharp\mathfrak{I}}=\int\limits_{dg}^{{}^H\lrcorner G}{}^{Hg}\overline{\mathfrak{I}}\int\limits_{d\gamma}^{{}^H\lrcorner G}{}^{Hg}\beta_{H\gamma}{}^{H\gamma}\mathfrak{I}=\int\limits_{dg}^{{}^H\lrcorner G}{}^{Hg}\overline{\mathfrak{I}}\int\limits_{d\gamma}^{{}^H\lrcorner G}{}^{Hg\gamma^{-1}}\beta{}^{H\gamma}\mathfrak{I}$$

$$<\tilde{G}>_{\beta}\stackrel{\mathcal{T}_{\beta}}{\longleftarrow} {}^H\lrcorner G_{\triangleleft^2}\mathbb{C}$$

$$\mathfrak{I}_{\beta}\overline{\mathfrak{I}}=\underbrace{\mathcal{T}_{\beta}}\mathfrak{I}\overline{\mathfrak{I}}\underbrace{\mathcal{T}_{\beta}}=\mathfrak{I}\overline{\mathfrak{I}}\underbrace{\mathcal{T}_{\beta}^*\mathcal{T}_{\beta}}\mathfrak{I}$$