

$$\underbrace{y|\eta}\,\star\,\underbrace{\widetilde{y}|\widetilde{\eta}}=\eta|\widetilde{y}-y|\widetilde{\eta}$$

$$\mathbb{R}^n\mathop{\times}\nolimits_n\mathbb{R}\overset{\mathfrak{K}}{\underset{\text{proj}}{\longrightarrow}}\mathsf{U}|\overset{\mathbb{R}^n}{\mathop{\triangleleft}\nolimits_m^2}\mathbb{C}$$

$$^x\overline{(y|\eta)\,\mathfrak{K}\,u}\,=\,^{x-y}u\,e^{i\,(x-y/2)\,\eta}$$

$$^x\overline{(y|0)\,\mathfrak{K}\,u}\,=\,^{x-y}u$$

$$^x\overline{(0|\eta)\,\mathfrak{K}\,u}\,=\,^xu\,e^{ix\eta}$$

$$\overline{y|\eta}\,\mathfrak{K}\,\overline{\widetilde{y}|\widetilde{\eta}}\,\mathfrak{K}\,=\,\overline{y+\widetilde{y}|\eta+\widetilde{\eta}}\,\mathfrak{K}\,\exp\frac{i}{2}\overline{y|\eta}\,\star\,\overline{\widetilde{y}|\widetilde{\eta}}\,=\,\overline{y+\widetilde{y}|\eta+\widetilde{\eta}}\,\mathfrak{K}\,\exp\frac{i}{2}\overline{\eta|\widetilde{y}-y|\widetilde{\eta}}$$

$$\frac{a}{c}\bigg|\frac{b}{d}\bigg|\,\mathfrak{K}\,_{\pm}z\,=\,\underbrace{\frac{a}{c}\bigg|\frac{b}{d}\bigg|\,\mathfrak{K}\,z}_{\pm}\,=\,\underbrace{\frac{az+b}{cz+d}}_{\pm}$$