

$$X = \sum_{1 \leq i \leq j \leq r} X_{ij}$$

$$\dim X_{jj} = 1$$

$$i < j: \dim X_{ij} = a = \dim Y_{ij}$$

$$d_X/r = 1 + a(r-1)/2$$

$$Y = \sum_{1 \leq i \leq j \leq r} Y_{ij}$$

$$i < j: \dim Y_{ij} = a$$

$$Y_{jj} = 0$$

$$d_Y/r = a(r-1)/2$$

$$U_{\mathbb{R}} = X \times Y$$