$$G^{\mathbb{C}} / K^{\mathbb{C}} = \overset{\times}{\mathbb{G}}_{Z \times \bar{Z}} = \frac{U{:}V \in \mathbb{G}_Z \times \mathbb{G}_{\bar{Z}}}{U{:}V \text{ transversal}} \subseteq \mathbb{G}_Z \times \mathbb{G}_{\bar{Z}}$$

$$\dim_{\mathbb{C}} G^{\mathbb{C}} / K^{\mathbb{C}} = 2 \dim_{\mathbb{C}} G^{\mathbb{R}} / K^{\mathbb{R}} = 2d = \dim_{\mathbb{C}} \mathbb{G}_Z \times \mathbb{G}_{\bar{Z}}$$