

product case

$$U_{p+q}^{\mathbb{C}} | U_p^{\mathbb{C}} \times U_q^{\mathbb{C}} | U_{p:q}^{\mathbb{C}} \subset U_{p+q}^{\mathbb{C}} \times U_{p+q}^{\mathbb{C}} | U_p^{\mathbb{C}} \times U_q^{\mathbb{C}} \times U_p^{\mathbb{C}} \times U_q^{\mathbb{C}} | U_{p:q}^{\mathbb{C}} \times U_{p:q}^{\mathbb{C}}$$
$$U_n^{\mathbb{H}} | U_n^{\mathbb{C}} | \subset U_n^{\mathbb{H}} \times U_n^{\mathbb{H}} | U_n^{\mathbb{C}} \times U_n^{\mathbb{C}}$$

group case

$$U_n^{\mathbb{R}} \times U_n^{\mathbb{R}} | U_n^{\mathbb{R}} | \subset U_{2n}^{\mathbb{R}} | U_n^{\mathbb{C}} |$$
$$U_n^{\mathbb{H}} \times U_n^{\mathbb{H}} | U_n^{\mathbb{H}} | \subset U_{2n}^{\mathbb{H}} | U_{2n}^{\mathbb{C}} |$$
$$U_n^{\mathbb{C}} \times U_n^{\mathbb{C}} | U_n^{\mathbb{C}} | \subset U_{2n}^{\mathbb{C}} | U_n^{\mathbb{C}} \times U_n^{\mathbb{C}} |$$

Grassmann case

$$U_{p+q}^{\mathbb{R}} | U_p^{\mathbb{R}} \times U_q^{\mathbb{R}} | U_{p:q}^{\mathbb{R}} \subset U_{p+q}^{\mathbb{C}} | U_p^{\mathbb{C}} \times U_q^{\mathbb{C}} | U_{p:q}^{\mathbb{C}}$$
$$U_{p+q}^{\mathbb{H}} | U_p^{\mathbb{H}} \times U_q^{\mathbb{H}} | U_{p:q}^{\mathbb{H}} \subset U_{2p+2q}^{\mathbb{C}} | U_{2p}^{\mathbb{C}} \times U_{2q}^{\mathbb{C}} | U_{2p:2q}^{\mathbb{C}}$$

Shilov case

$$U_n^{\mathbb{C}} | U_n^{\mathbb{R}} | C_n^{\mathbb{R}} \subset U_n^{\mathbb{H}} | U_n^{\mathbb{C}} | \Omega_{2n}^{\mathbb{R}}$$
$$U_n^{\mathbb{C}} \times U_n^{\mathbb{C}} | U_n^{\mathbb{C}} | C_n^{\mathbb{C}} \subset U_{2n}^{\mathbb{C}} | U_n^{\mathbb{C}} \times U_n^{\mathbb{C}} | U_{n:n}^{\mathbb{C}}$$