

$$\begin{array}{ccc}
 B_n & \xrightarrow{\mathbf{WT}_{C_n}} & \mathbf{WT}_{C_n}(B_n) \\
 \uparrow \star & & \uparrow \mathcal{F} \\
 \mathcal{CG}_{2n} & \xrightarrow{\mathbf{WT}} & \mathbf{WT}(\mathcal{CG}_{2n}) \subset UM_{n-1}
 \end{array}$$