

$$\begin{array}{c} \diagup \\ \uparrow \\ w_\square(0) \end{array} = \begin{array}{c} M \\ \diagup \\ \text{cyan oval} \\ \uparrow \\ w_\square(0) \end{array} = \omega \begin{array}{c} \diagup \\ \text{red oval} \\ \uparrow \\ w_\square(0) \end{array} \quad v_{\omega-1}(\mathbb{Z})$$