γ	$\operatorname{tr}(\gamma)$	$\dim(\mathrm{HH}_0(A,A_{\gamma w}))$	$\dim(\mathrm{HH}_0(A,A_{\gamma\lambda_i})_{C_W(\lambda_i)})$
S and $S^3 = -S$	0	$\lambda_i \rightsquigarrow 1 \text{ if } \lambda_i \equiv 0 \mod 4$ $\lambda_i \rightsquigarrow 4 \text{ if } \lambda_i \equiv 2 \mod 4$ $\lambda_i \rightsquigarrow 2 \text{ else}$	$\lambda_i \leadsto 1 \text{ if } \lambda_i \equiv 0 \mod 4$ $\lambda_i \leadsto \text{Monica's formula else}$
$E_{+} = TS \text{ and } E_{-} = (TS)^{-1}$	1	$\lambda_i \leadsto 1 \text{ if } \lambda_i \equiv 0 \mod 3$ $\lambda_i \leadsto 3 \text{ else}$	$\lambda_i \leadsto 1 \text{ if } \lambda_i \equiv 0 \mod 3$ $\lambda_i \leadsto \text{Monica's formula else}$
$-E_+$ and $-E$	-1	$\lambda_i \leadsto 1 \text{ if } \lambda_i \equiv 0, 1, 5 \mod 6$ $\lambda_i \leadsto 4 \text{ if } \lambda_i \equiv 3 \mod 6$ $\lambda_i \leadsto 3 \text{ else}$	$\lambda_i \leadsto 1 \text{ if } \lambda_i \equiv 0 \mod 6$ $\lambda_i \leadsto \text{Monica's formula else}$
$S^4 = \operatorname{Id}$	2	$\lambda_i \leadsto 1$	1
$S^2 = -\operatorname{Id}$	-2	$ \begin{array}{c} odd \ \lambda_i \leadsto 4 \\ even \ \lambda_i \leadsto 1 \end{array} $	$\begin{array}{c} odd \ \lambda_i \leadsto \text{Monica's formula} \\ even \ \lambda_i \leadsto 1 \end{array}$
T^m for $m \in \mathbb{Z}_0$	2	$\lambda_i \leadsto m \lambda_i$	$ m \lambda_i$
$-T^m \text{ for } m \in \mathbb{Z}_0$	-2	$\lambda_i \rightsquigarrow 4$	$\begin{array}{c} odd \ \lambda_i \leadsto \text{Monica's formula} \\ even \ \lambda_i \leadsto m \lambda_i \end{array}$
regular	$ \operatorname{tr}(\gamma) > 2$	$\lambda_i \leadsto \operatorname{tr}(\operatorname{Id} - \gamma^{\lambda_i}) $	Monica's formula

References

 $\left[1\right]$ Patrick Kinnear. Skein dimensions of mapping tori of the 2-torus. 2024.