

The Halacheva Trace

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$$\begin{array}{c|cc} \omega & c & S \\ \hline c & \alpha & \theta \\ S & \psi & \Xi \end{array} \xrightarrow[\mu:=1-\alpha]{\Gamma::\text{tr}_c} \begin{array}{c|c} \mu\omega & S \\ \hline S & \Xi + \psi\theta/\mu \end{array}$$