$\pm 1 \ 2\pi \ 760^\circ$

\[ \begin{array}{c}
S^2 \\
t = T = 1
\end{array} \]

$2\pi$ rotation does not return to initial condition. (Not time dependent on $S^2$.)

$\pm 1 \ 4\pi \ 1440^\circ \ 0$

\[ \begin{array}{c}
S^2 \\
X \\
S^2 = S^3
\end{array} \]

$4\pi$ rotation is complete 4 dimensional spacetime transformation.