

This is for trying out stuff in L^AT_EX .

$$\begin{array}{ccc}
 S^2 & \xrightarrow{R_{X,\pi}} & S^2 \\
 \downarrow s & & \downarrow s \\
 \hat{\mathbb{C}} & \xrightarrow{\text{inversion}} & \hat{\mathbb{C}} \\
 \\
 (a,b,c) & \xrightarrow{R_{X,\pi}} & (a,-b,-c) \\
 \downarrow s & & \downarrow s \\
 \frac{a+bi}{1-c} & \xrightarrow{\text{inversion}} & \frac{a-bi}{1+c}
 \end{array}$$