

$$\begin{array}{ccccc}
 \varepsilon_2 & \hookrightarrow & A & \longrightarrow & C \\
 \parallel & & \downarrow q & & \downarrow \\
 \varepsilon_2 & \hookrightarrow & A_F & \longrightarrow & C' \\
 & & \downarrow & & \downarrow \\
 & & A_C & = & A_C
 \end{array}$$

$$\begin{array}{ccc}
 \omega & & \\
 \downarrow q & \searrow \cong & \\
 \omega' & & \\
 & \searrow \exists s & \\
 & & \omega
 \end{array}$$