

$$\begin{array}{ccc}
\widehat{H}^n(H; \mathbb{Z}) & \xrightarrow{\sim} & \widehat{H}^n(H; A) \\
\downarrow \text{res} & & \downarrow \text{res} \\
\widehat{H}^n(P; \mathbb{Z}) & \xrightarrow{\sim} & \widehat{H}^n(P; A)
\end{array}$$

$$\begin{array}{c}
\longrightarrow \\
n=0
\end{array}$$

$$\begin{array}{ccccc}
1 & \xleftarrow{\quad \mathbb{Z}/|H|\mathbb{Z} \xrightarrow{\sim} A^H/N_H A \quad} & & & u_H \\
\downarrow & \text{res} \downarrow & & \downarrow \text{res} & \downarrow \\
1 & \xleftarrow{\quad \mathbb{Z}/|P|\mathbb{Z} \xrightarrow{\sim} A^P/N_P A \quad} & & & u_P
\end{array}$$