

$$\dots \longrightarrow \mathbb{Z}[H^2] \otimes_H A \longrightarrow \mathbb{Z}[H] \otimes_H A \longrightarrow 0$$

$$\downarrow$$

$$\downarrow$$

$$\dots \longrightarrow \mathbb{Z}[G^2] \otimes_G A \longrightarrow \mathbb{Z}[G] \otimes_G A \longrightarrow 0$$