

$$\begin{array}{ccccccc}
 0 & \longrightarrow & \mathbb{Z}_p & \longrightarrow & \mathbb{Q}_p & \longrightarrow & \mathbb{Q}_p/\mathbb{Z}_p \longrightarrow 0 \\
 & & & & & & \nwarrow \\
 & & & & & & \nearrow
 \end{array}$$