$$\gamma$$
 · GLWE(Δ M) \longrightarrow GLWE(Δ M · γ)

GLev
$$^{\ell,\beta}(\Delta M)$$

$$\gamma_1 \cdot \mathsf{GLWE}(\Delta M \cdot \frac{\mathsf{q}}{\beta})$$

$$\gamma_2$$
 • GLWE($\Delta M \cdot \frac{q}{\beta^2}$)

$$\gamma_{\ell} \cdot \mathsf{GLWE}(\Delta \mathsf{M} \cdot \frac{\mathsf{q}}{\mathsf{B}^{\ell}})$$

GLWE(
$$\Delta M \cdot \frac{q}{\beta}$$
) \longrightarrow GLWE($\Delta M \cdot \frac{q}{\beta} \gamma_1$)

$$\longrightarrow$$
 GLWE($\Delta M \cdot \frac{q}{\beta} \gamma_2$)

$$\gamma_{\ell}$$
 GLWE($\Delta M \cdot \frac{q}{\beta^{\ell}}$) \longrightarrow GLWE($\Delta M \cdot \frac{q}{\beta} \gamma_{\ell}$)

