



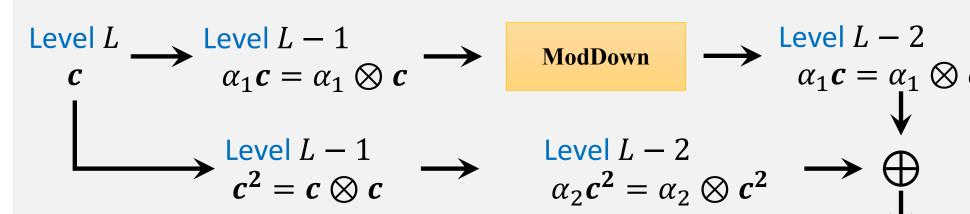
## **Arbitrary Polynomial**

$$f(x) = \sum_{i} \alpha_i x^i$$

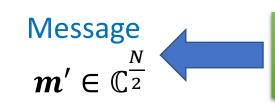


## Homomorphic

$$f(m) \approx m'$$



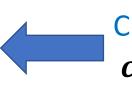




Decode



Decrypt



Ciphertext

 $c' \in \mathcal{R}^2_{Q_L}$