



Polynomial filter

$$f = \sum_{i=0}^k \alpha_i \vec{\lambda}^i \in \mathbb{R}^n$$

 Pro: all FP response
 Con: limited approximation ability
 Limited expressive response on all FPs

Trunc-eigend. filter

$$f = \text{MLP} \circ \text{PE}([\lambda_0, \dots, \lambda_d]) \in \mathbb{R}^d, d \ll n$$

 Pro: Infinite approximation ability
 Con: partial FP response
 Infinite expressive response on partial FPs