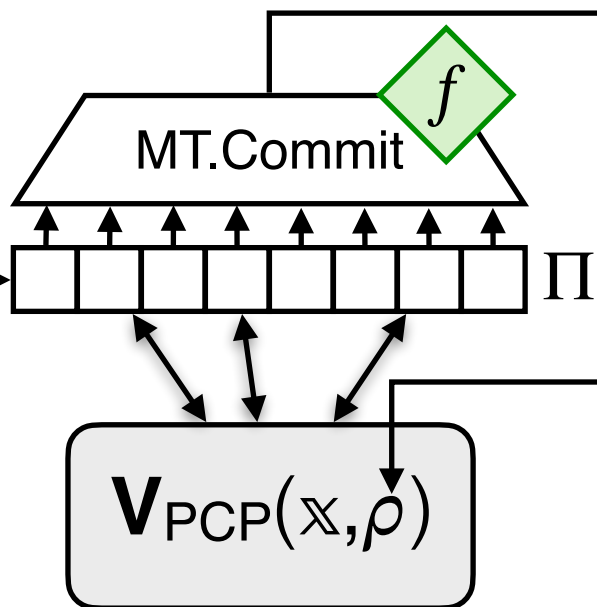


$\mathcal{P}(\mathbb{X}, \mathbb{W})$ $\mathbf{P}_{\text{PCP}}(\mathbb{X}, \mathbb{W})$ 

PCP queries: Q
PCP answers: $\mathbf{a} := \Pi[Q]$
MT proof: pf

 $\mathcal{V}(\mathbb{X})$ rt ρ $(Q, \mathbf{a}, \text{pf})$

- sample PCP randomness ρ

- check MT proof

MT.Check f ($\text{rt}, Q, \mathbf{a}, \text{pf}$)

- check PCP decision

$\mathbf{V}_{\text{PCP}}^{[Q, \mathbf{a}]}(\mathbb{X}, \rho)$