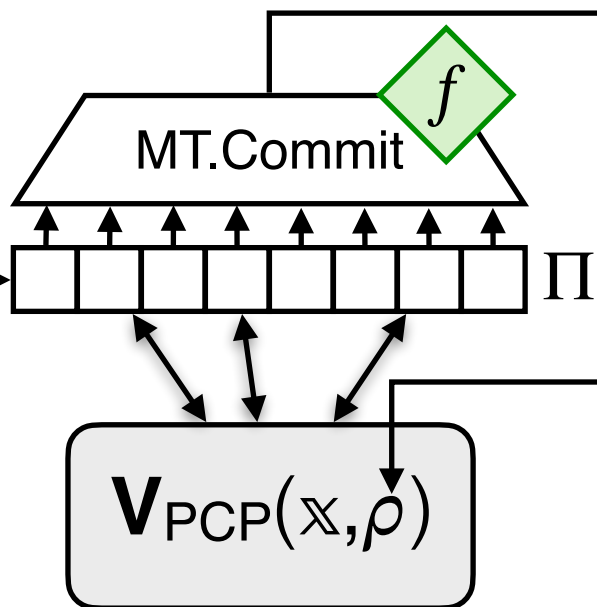


$\mathcal{P}(\mathbb{X}, \mathbb{W})$  $\mathbf{P}_{\text{PCP}}(\mathbb{X}, \mathbb{W})$ 

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

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

- sample PCP randomness  $\rho$

- check MT proof

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

- check PCP decision

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