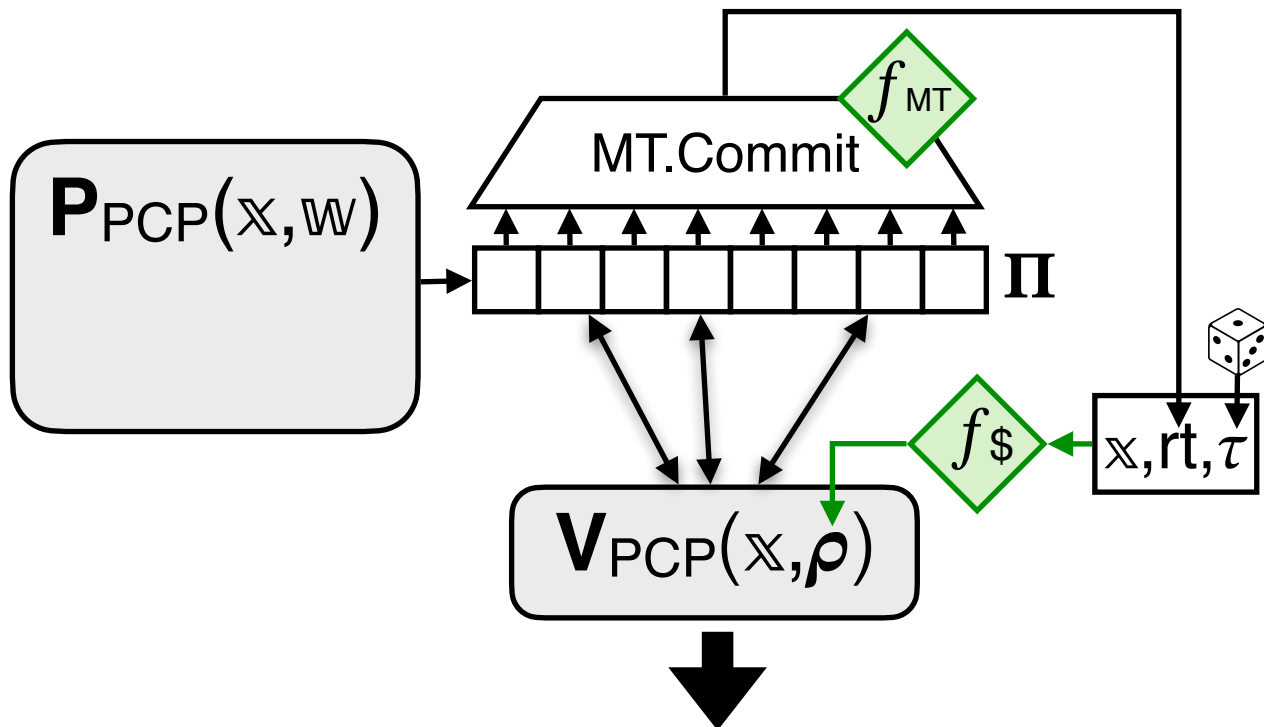


$$\mathcal{P}(\mathbb{X}, \mathbb{W})$$


PCP queries:  $Q$

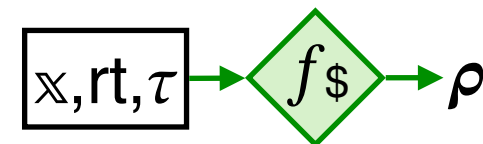
PCP answers:  $\mathbf{a} := \Pi[Q]$

MT proof: pf

$\pi := (\text{rt}, Q, \mathbf{a}, \text{pf}, \tau)$

$$\mathcal{V}(\mathbb{X}, \pi)$$

- parse  $\pi$  as  $(\text{rt}, Q, \mathbf{a}, \text{pf}, \tau)$
- derive PCP randomness



- check MT proof

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

- check PCP decision

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

$\pi$