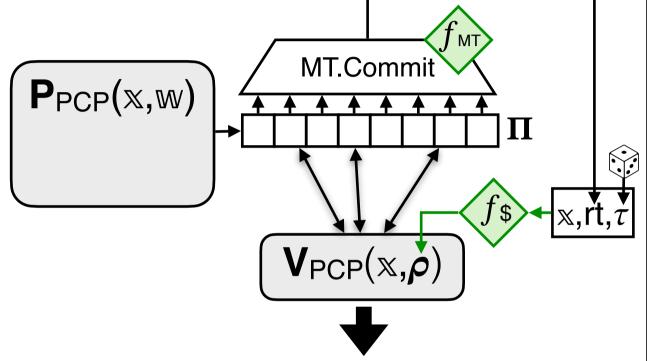
$\mathcal{P}(x,w)$



PCP queries: Q

PCP answers: $a = \Pi[Q]$

MT proof: pf

$$\pi \coloneqq (\mathsf{rt}, Q, \boldsymbol{\alpha}, \mathsf{pf}, \tau)$$

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

- parse π as $(\mathsf{rt}, Q, \boldsymbol{a}, \mathsf{pf}, \tau)$
- derive PCP randomness

$$\times, rt, \tau \rightarrow f \Rightarrow \rho$$

check MT proof

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

check PCP decision

 $\mathsf{V}^{[Q,oldsymbol{lpha}]}_{\mathsf{PCP}}(oldsymbol{ imes},oldsymbol{
ho})$

 π