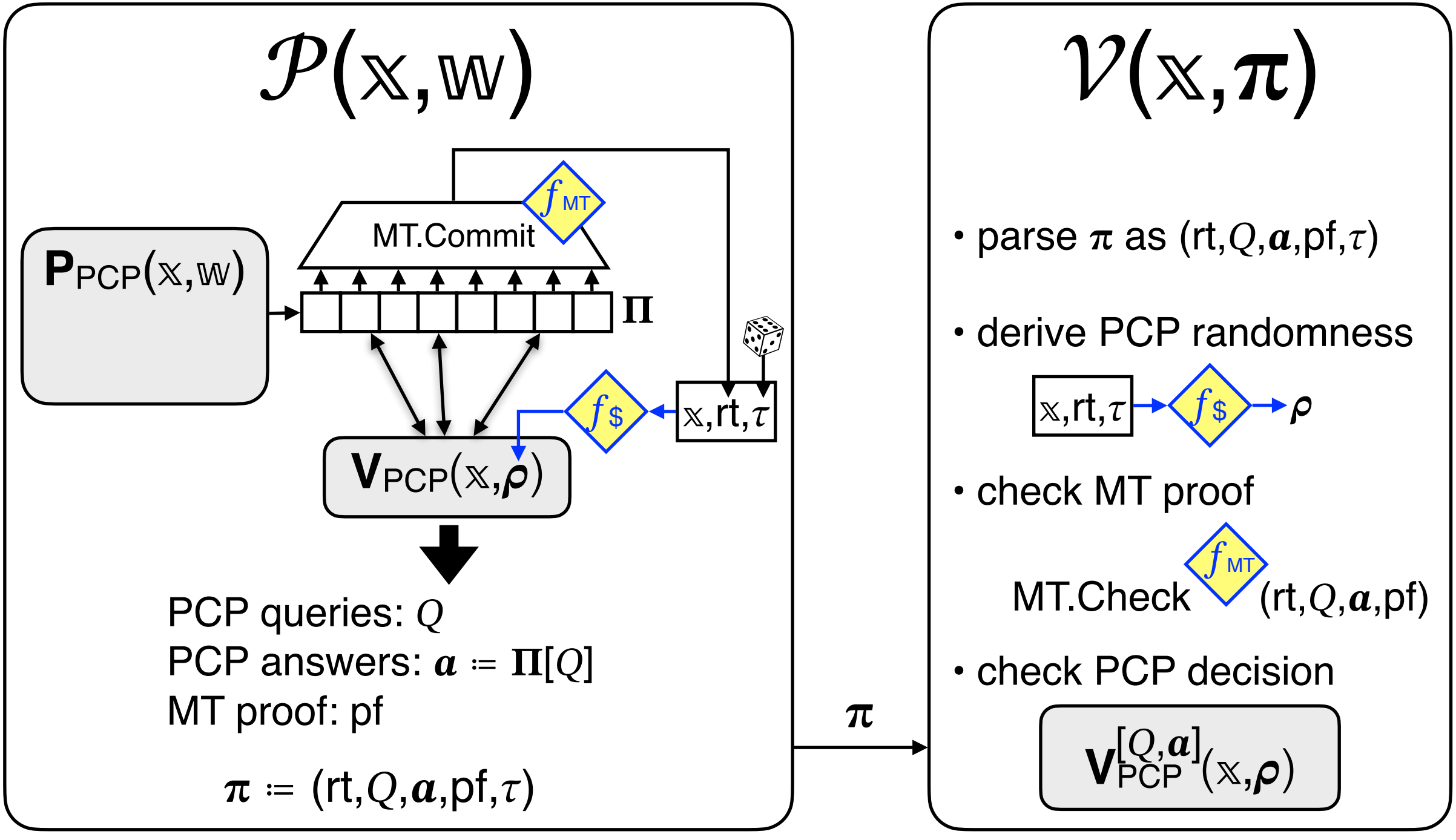
$\mathcal{P}(\mathbb{x},\mathbb{w})$
$\mathbf{P}_{\mathrm{PCP}}(\mathbb{x},\mathbb{w})$
MT.Commit
f_{MT}
$\mathbf{\Pi}$
$f_{\$}$
$\mathbb{x}$,rt,τ
$\mathbf{V}_{\mathrm{PCP}}(\mathbb{x},\boldsymbol{\rho})$
PCP queries: Q
PCP answers: $\boldsymbol{a} \coloneqq \mathbf{\Pi}[Q]$
MT proof: pf
$\boldsymbol{\pi} \coloneqq$ (rt,Q,$\boldsymbol{a}$,pf,τ)
$\boldsymbol{\pi}$
$\mathcal{V}(\mathbb{x},\boldsymbol{\pi})$
• parse $\boldsymbol{\pi}$ as (rt,Q,$\boldsymbol{a}$,pf,τ)
• derive PCP randomness
$\mathbb{x}$,rt,τ
$f_{\$}$
$\boldsymbol{\rho}$
• check MT proof
MT.Check f_{MT} (rt,Q,$\boldsymbol{a}$,pf)
• check PCP decision
$\mathbf{V}_{\mathrm{PCP}}^{[Q,\boldsymbol{a}]}(\mathbb{x},\boldsymbol{\rho})$