

$\mathcal{P}(\mathbb{X}, \mathbb{W})$ $\mathbf{P}_{\text{SP}}(\mathbb{X}, \mathbb{W})$ α_1  $\mathbb{X}, \alpha_1, \tau$ ρ f α_2 $\pi := (\alpha_1, \alpha_2, \tau)$ π $\mathcal{V}(\mathbb{X}, \pi)$

- parse π as $(\alpha_1, \alpha_2, \tau)$
- derive SP randomness

 $\mathbb{X}, \alpha_1, \tau$ f ρ

- check SP decision

 $\mathbf{V}_{\text{SP}}(\mathbb{X}, \alpha_1, \rho, \alpha_2)$