

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

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

 $\mathbb{X}, \alpha_1, \tau$  $f$  $\rho$ 

- check SP decision

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