



 $(m, \sigma)$ 

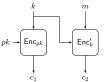
 $\sigma_i$  on  $\hat{m}_i$ 

 $(H^s(m), \sigma)$ 

 $\sigma_i \leftarrow \mathsf{Sign}_{sk}(H^s(m_i))$ 

 $(m, m_i)$  if  $\exists i$ 

 $H^s(m) = H^s(m_i)$ 



	65/116	66/116	67/116	68 / 116
hybrideg	hybridproof	identification-schnorr	identification	

(by security of  $\Pi$ ) (by security of  $\Pi$ )

 $\langle pk, \mathsf{Enc}_{pk}(0^n), \mathsf{Enc}'_k(m_0) \rangle \underset{\mathsf{(by\ security\ of\ II')}}{\longleftrightarrow} \langle pk, \mathsf{Enc}_{pk}(0^n), \mathsf{Enc}'_k(m_1) \rangle$ 





