Theorem 2.7 (Security of Nakamoto [PSS16]). *For any $\delta > 0$, any $\lambda > 1$, any $p(\cdot)$, any superlogarithmic function $T_0(\cdot)$, $(\Pi^p_{Nak}, \mathsf{extract}^p_{nak})$ satisfies:*

- *T_0-consistency;*
- *chain growth rate $(T_0, g_0^{p,\delta}, g_1^{p,\delta})$ where*

$$g_0^{p,\delta}(\kappa, n, \rho, \Delta) = (1-\delta)\gamma$$

$$g_1^{p,\delta}(\kappa, n, \rho, \Delta) = (1+\delta)np$$

- *chain quality $T_0, \mu^p_\delta(\kappa, n, \rho, \Delta)$ where*

$$\mu^p_\delta(\kappa, n, \rho, \Delta) = 1 - (1+\delta)\frac{\beta}{\gamma};$$

in Γ^p_λ environments.