

- We say that a sequence of blocks,  $chain = (b_0, \dots, b_\ell)$ , is valid where  $b_i = ((h_{-1}^i; h'^i; \eta^i, digest^i; m^i; h^i), F^i)$  iff
  - $b_0 = genesis$  where  $genesis := ((0; 0; 0; 0; \perp; H(0; 0; 0; 0, \perp)), \emptyset)$  is the “genesis” block;
  - for all  $i \in [\ell]$ ,  $h_{-1}^i = h^{i-1}$ ,
  - for all  $i \in [\ell]$ , all  $f \in F^i$ , there exists some  $j \geq i - R\kappa$  such that the pointer of  $f$  is  $h^j$ .