- We say that a *block*, $\mathsf{b} = ((h_{-1}; h'; \eta; \mathsf{digest}; m; h), F)$, *is valid* iff $\mathsf{digest} = \mathsf{d}(F)$, F is a valid fruit-set, $H(h_{-1}; h'; \eta, \mathsf{d}(F); \mathsf{m}) = h$ and $[h]_{:\kappa} < D_{p_1}$ where $[h]_{:\kappa}$ denotes the first κ bits of h; we call h the reference of b.