for $i = 1 \dots \ell$: $\sigma_i := \operatorname{sgn}(sk, m_i)$ $\triangleright m, \sigma$

 $\triangleright pk, \sigma_1, \ldots, \sigma_\ell$ sample $a \in \{0, 1\}^k$ sample $b \in \{0,1\}^k \setminus \{a\}$ pk' := pk||a||bfor $i = 1 \dots \ell$: if $m_i = a$ then fail

 \exists CM attack on Σ

else $\sigma_i' := \sigma_i || \mathbf{0}$ \blacktriangleright (m, σ') unpack $\sigma' =: \sigma || \eta$

forge (m, σ')

 $\triangleright pk', \sigma'_1, \ldots, \sigma'_{\ell}$

return $vrf(pk, m, \sigma)$

 $\wedge (\forall i \in [\ell], \ m \neq m_i)$