

ltkI

**Initiator**

FRESH  $eskI$   
 $exI = h1(eskI, ltkI)$   
 $hkl = g^{exI}$

$hkl$  (X)

ltkR

**Responder**

FRESH  $eskR$   
 $exR = h1(eskR, ltkR)$   
 $hkR = g^{exR}$

(Y)  $hkR$

$kl = h2(<Y^{sim}ltkI, pkR^{exI}, Y^{exI}, \$I, \$R>)$

$kR = h2(<pkI^{exR}, X^{sim}ltkR, X^{exR}, \$I, \$R>)$