

$$\begin{array}{l}
\begin{array}{c} RSA \\ \hline RSA \end{array} \\
? \\
\bar{p} \\
\ell_A^{e_A} \ell_B^{e_B} . f \pm \\
1 \\
E_0 \\
F_{p^2} \\
? \\
\{P_A, Q_A\} \\
\{P_B, Q_B\} \\
E_0[\ell_A^{e_A}] \\
E_0[\ell_B^{e_B}] \\
p \\
E_0 \\
E_0[\ell_A^{e_A}] \\
E_0[\ell_B^{e_B}] \\
\vdots \\
\phi_A : \\
E_0 \rightarrow \\
E_A \\
\langle [m_A]P_A + \\
[n_A]Q_A \rangle \\
m_A \\
n_A \\
(Z/\ell_A^{e_A}Z) \\
\ell_A \\
E_A \\
\phi_A(P_B) \\
\phi_A(Q_B) \\
\langle R_A \rangle = \\
\langle [m_A]P_A + \\
[n_A]Q_A \rangle \\
E_0 \\
E_A \\
\phi_A \\
\phi_A(P_B) \\
\phi_A(Q_B) \\
CSSI \\
R_A = \\
[m_A]P_A + \\
[n_A]Q_A \\
P_A \\
Q_A \\
m_A \\
n_A \\
E_0 \\
? \\
\phi_A(P_B) \\
\phi_A(Q_B)
\end{array}$$

$$\begin{array}{l}
\dot{} \\
{}_0[r, \text{''}\phi\text{''}][d]E_3[d] \\
{}_1[r, \text{''}\phi'\text{''}]E_2 \\
\phi: \\
E_0 \rightarrow \\
E_3 \\
\ell^{e_A} \\
(E_1, E_2, \phi') \\
1/2 \\
R \\
\ell^{e_B} \\
E_1 = \\
E_0/\langle R \rangle \\
E_2 = \\
E_3/\langle \phi_R \rangle \\
\phi': \\
E_1 \rightarrow \\
E_2 \\
\ell^{e_A} \\
E_1 \\
E_0 \\
\phi': \\
E_1 \rightarrow \\
E_2 \\
\ell^{e_A} \\
DSSI \\
?
\end{array}$$