RSA Problem:

many 2 lierby pierwsze
$$p, q$$
 $N = p \circ q$
 $\varphi(N) = (p-1)(q-1)$
 $e \neq q \neq 1 \dots \varphi(N)$
 $ed = 1 \mod \varphi(N)$
 $ed =$

1. Funkcjonalność jak w podpisie Schnorra 1) P[J=12) P[$J=negl(\lambda)$

Jak cuyglada podpis RSA

(N,e,d)

Keygen (1)

public private

Sign (m,pk,sk)

11 11

h = H(mm)

Net.

T = hd mod N

Verify (m, pk, k): h = H(m) fe = h

2

1. Correctness. $L=e^{e}=(h^{o})^{e}=h^{de}=h=P$ 2 vouvosé sermata $a^{(N)}$ mod N = aa K. P(N mod N = Q 2. Seawity 1° Symulage Osign () 1 Oylash () 2° Hormanie Problemer Poolanie symmessagee do Harmania 2 abladamy, re A robi queries do Osign a j-tej be rajnie sie tomaniem 2° re 1° m prejdrie weryfikage 5e = re = = h am on soda 5: