The bigital signature Algorithm

- KeyGien (1"); choose a prime of and p s.t. of p-1. choose $g \stackrel{\text{def}}{=} \mathbb{Z}_p^*$ and $y_i = g \stackrel{\text{def}}{=} (y_i \stackrel{\text{def}}{=} | \text{mod } p)$. choose a secret s & 7/2 and y2 = y15 due to Polity-Hellman attack. output $pk = (p, g, y_1, y_2)$ and sk = (s)

- Sign (sk, m); choose a roundom o < r < 8-1. compute $\sigma_i = y_i^{r} \mod p \mod q$.

σ2 = r - (m+s·σi) mod g. > m = -sσi + σ2 mod g. output (or. T.). 0,1 m = 7500, ++ r mad 8.

> = 15 m + 5010 mod g.

- verify (pk, o); passe or as (01, 02).

= ui+sue mad g.

compute u = 5 m med g

Uz = 5 Tr, mod g.

v = y, u, y, u, mod p mod g.

if $v = v_1$, output 1.

if $v \neq \sigma_i$, output o. $y_i^r = y_i^{u_i + sub}$

= y, u. ya mod p mad g.