









Let's look at the exponents: y; = yu; + v; Z; = Zu; + Xv; = $= (xy + \beta) M_j + xv_j =$ = Buj + x (yuj + vj) = = Buj + xy; First, since of is UNIFORM, so is yj. Second, if B=0, Zi = xyj which gives the BLACK DISTRIBUTION of the PRG Third, if B = \$ Zq, The Zj are all roudou and independent (since lej's are roudon and independent of the yis) So, the random simulates the RED DISTRIBUTION of The PRG A distingue con probabilità con il su poly che è la stessa probabilità che ha l'attaccante di rompere il DDH PRFS. NAOR-REINGOLD pourous & 5 Group Gen (12) where $t_{q,q} \stackrel{?}{=} (x_1, \dots, x_n) = (x_n) \stackrel{?}{=} (x_n, x_n) = (x_n) \stackrel{?}{=} (x_n) \stackrel{?$ Note: complexity is at most a multiplications to determine





