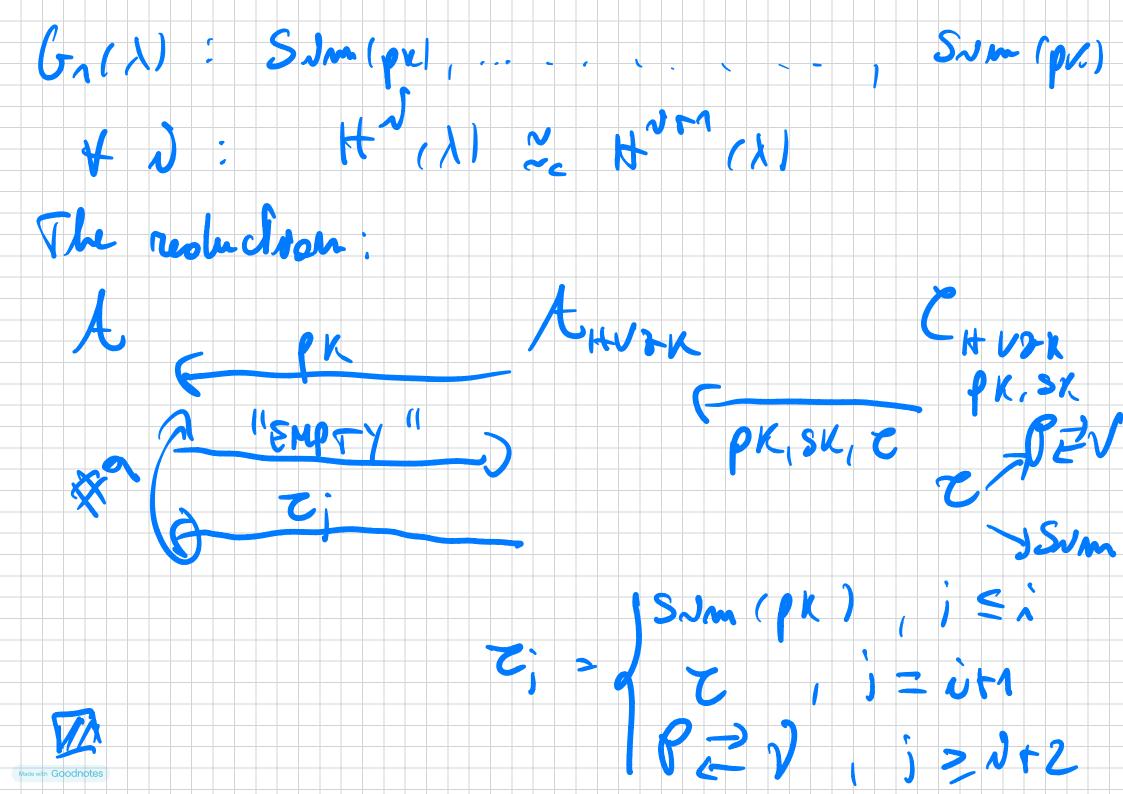
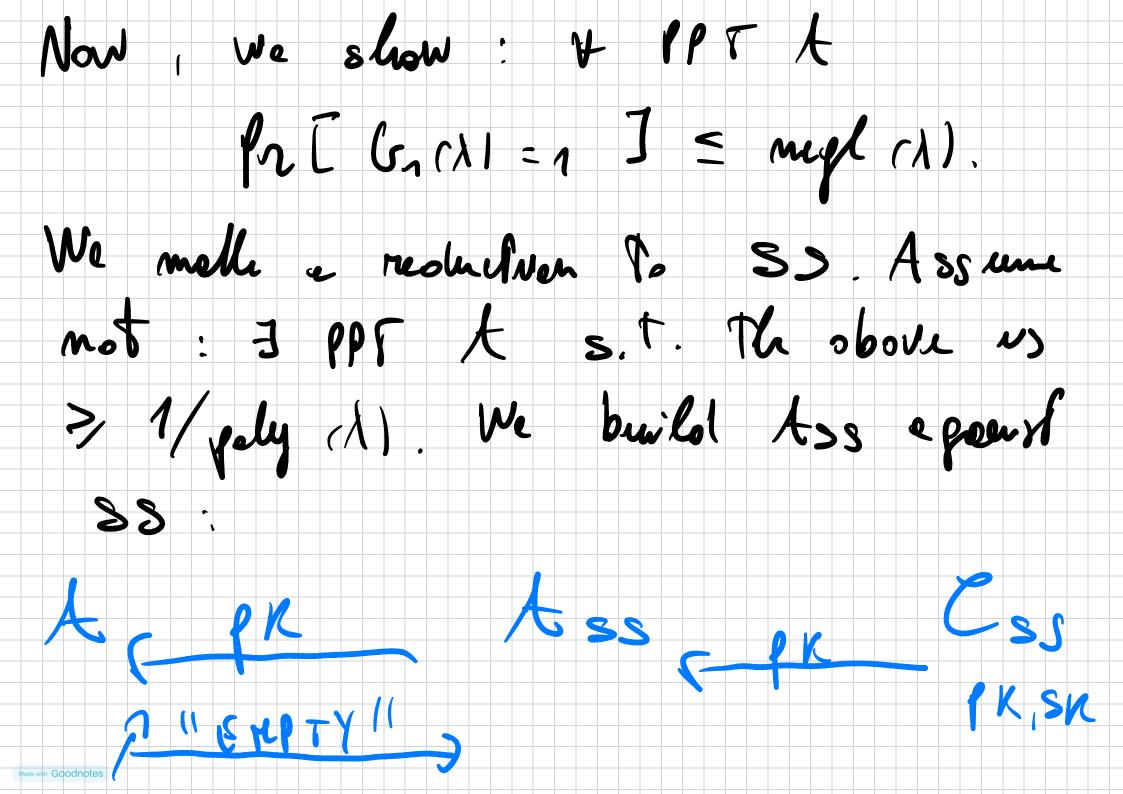
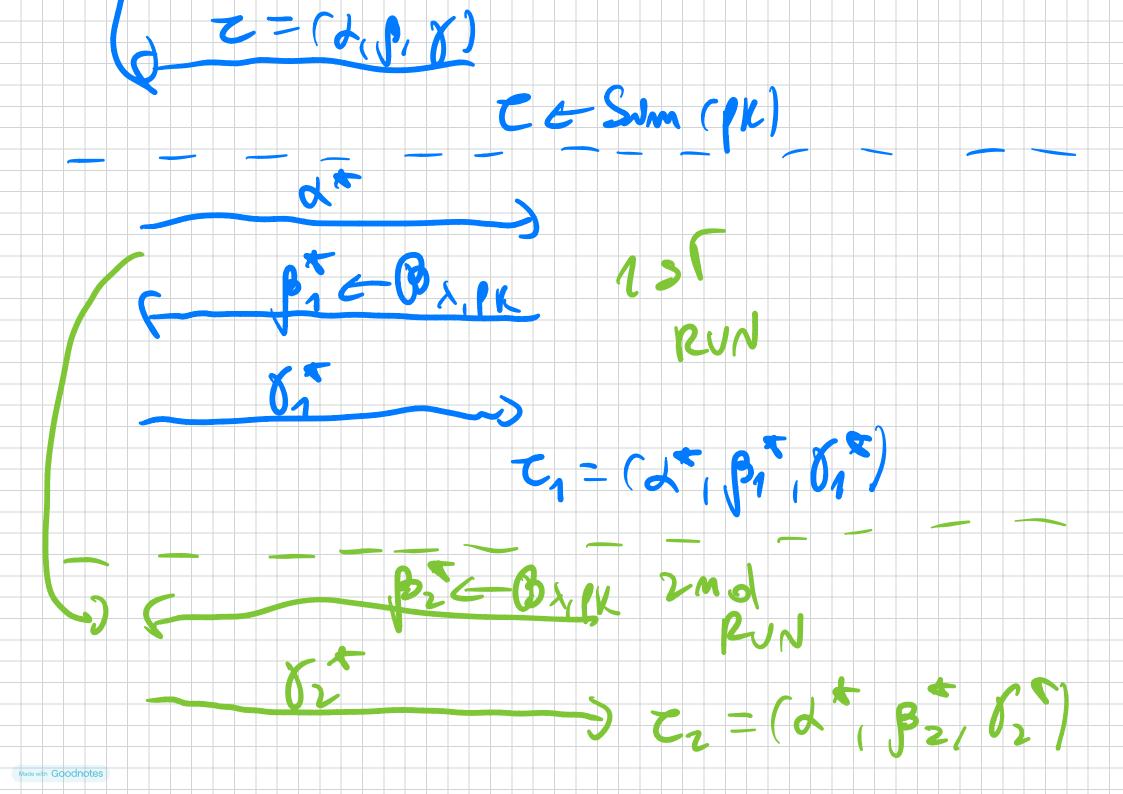


the trans-we operus s. The Lenga Go (1) Zc G, (1) Proof. We wall use The HUZK property. These was: 9=# queres-Go (A): B(PK,SK) = V(PK) ..., B(PK,SK) = V(P) H1(1): Sum (pk), p=1), (p=1), (p=1) Sum (pk) ,, Sum (pk), B=21 ...- B=21 H (X) :

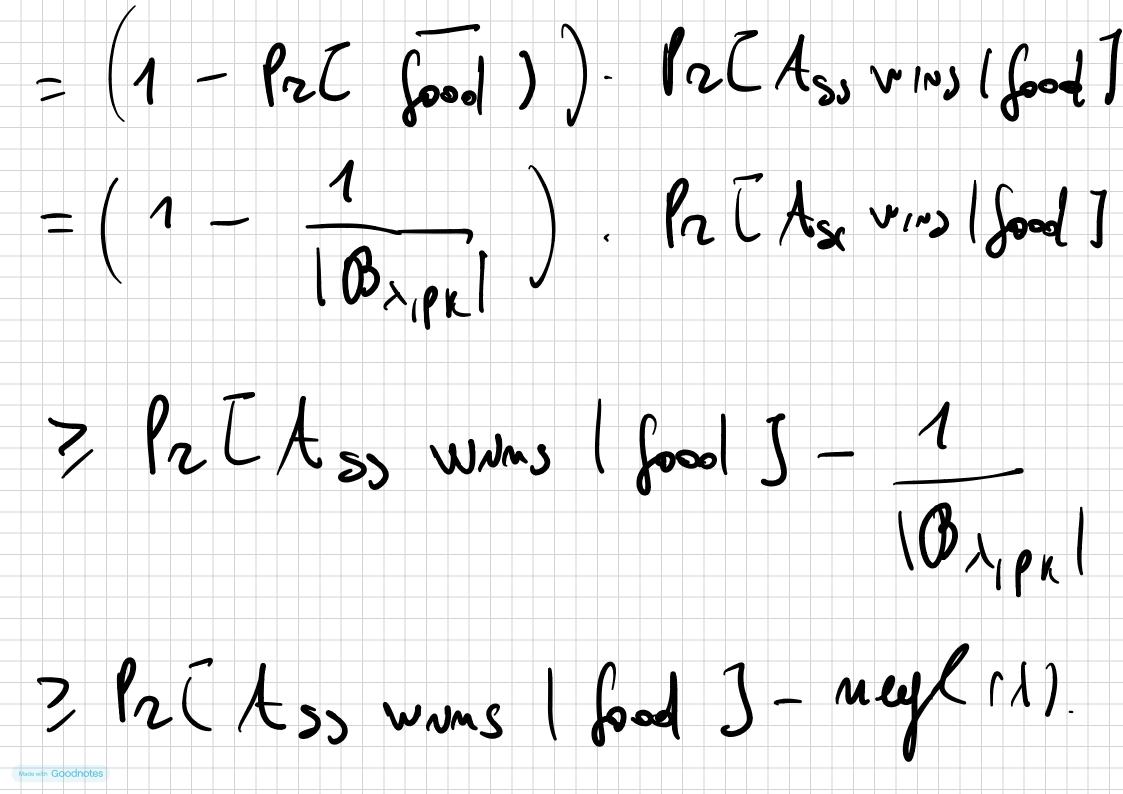






21/27 To anely re (lux restrollant let 7 + 40,11 be the for representing the state of t ofter N sert & Then we olden: $S_3 = \{1(G_1(\lambda)) = 1 \mid \xi = 3\}$ This means. 12 (G1 (1) = 1) = $-\frac{2}{\tau}r_z - \delta_z = |EES_3 - \epsilon_{(1)}|$

vlore 13 - 12 E Z = 3]. Finelly, let food be The Dent Clos Bt # Jz · Now 12 [() = 1 1 fool] Palts wins I food J = Pat Good J.

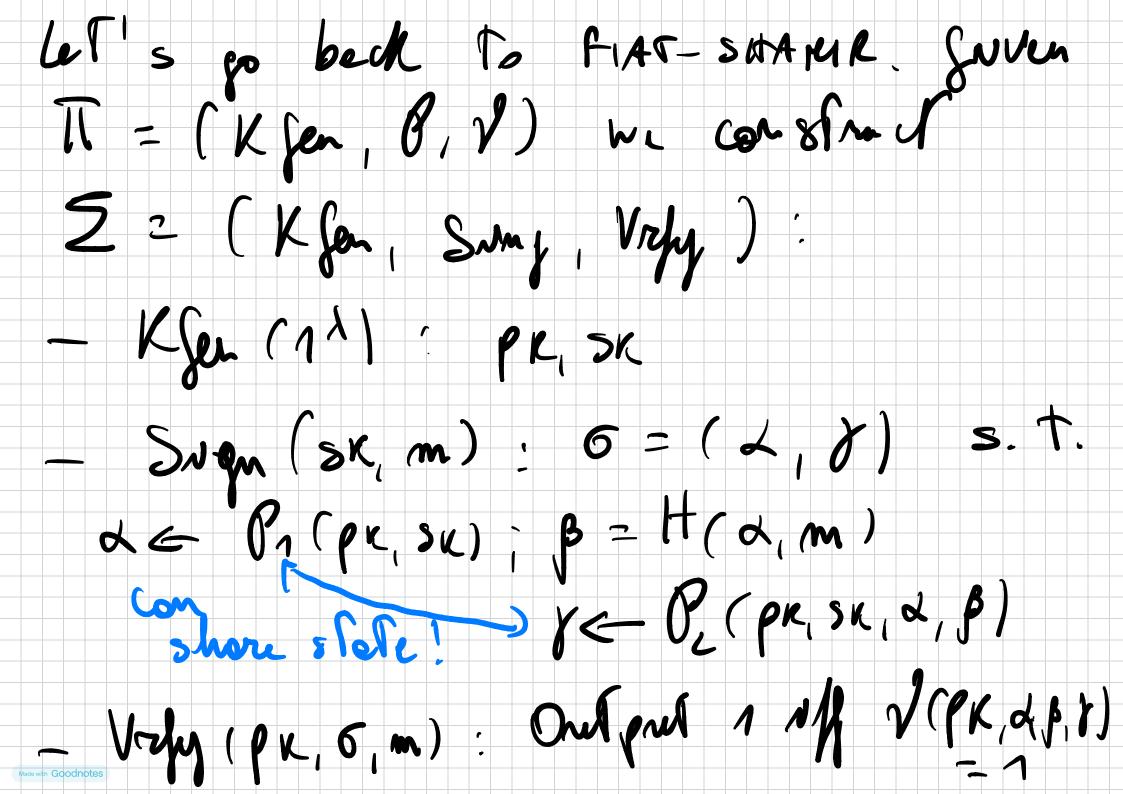


2 12 82 - megl (1) = 1E [&z] - mepl (1)

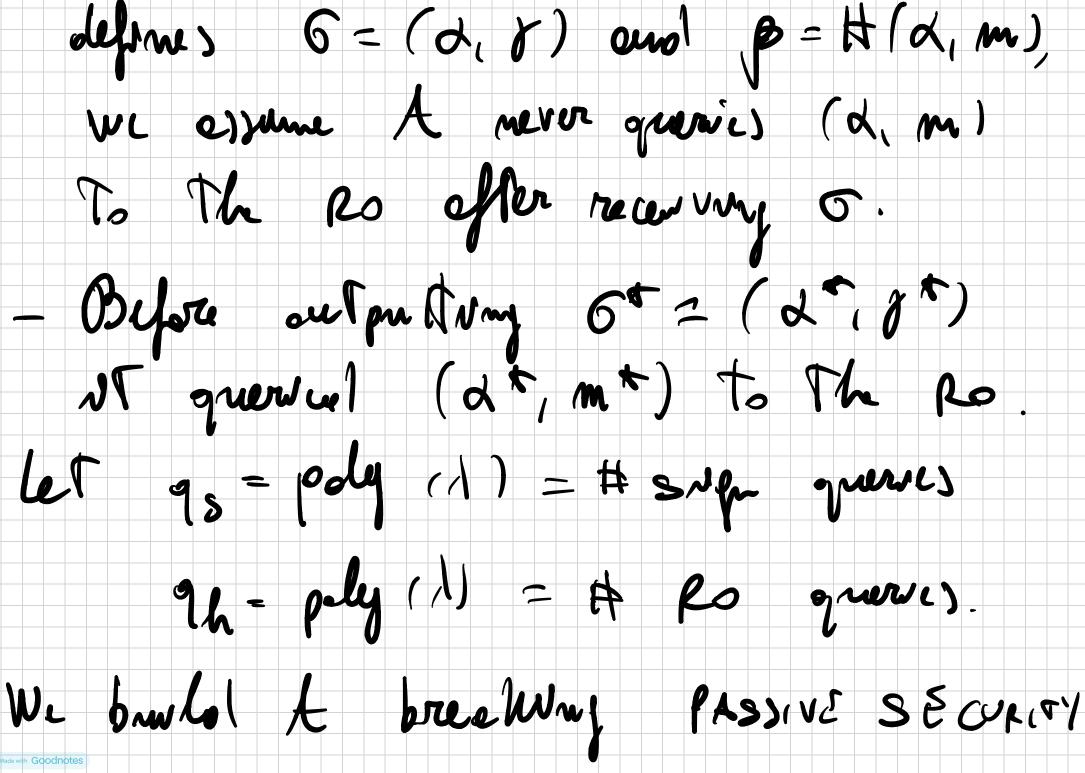
= 1E [&z] - mepl (1)

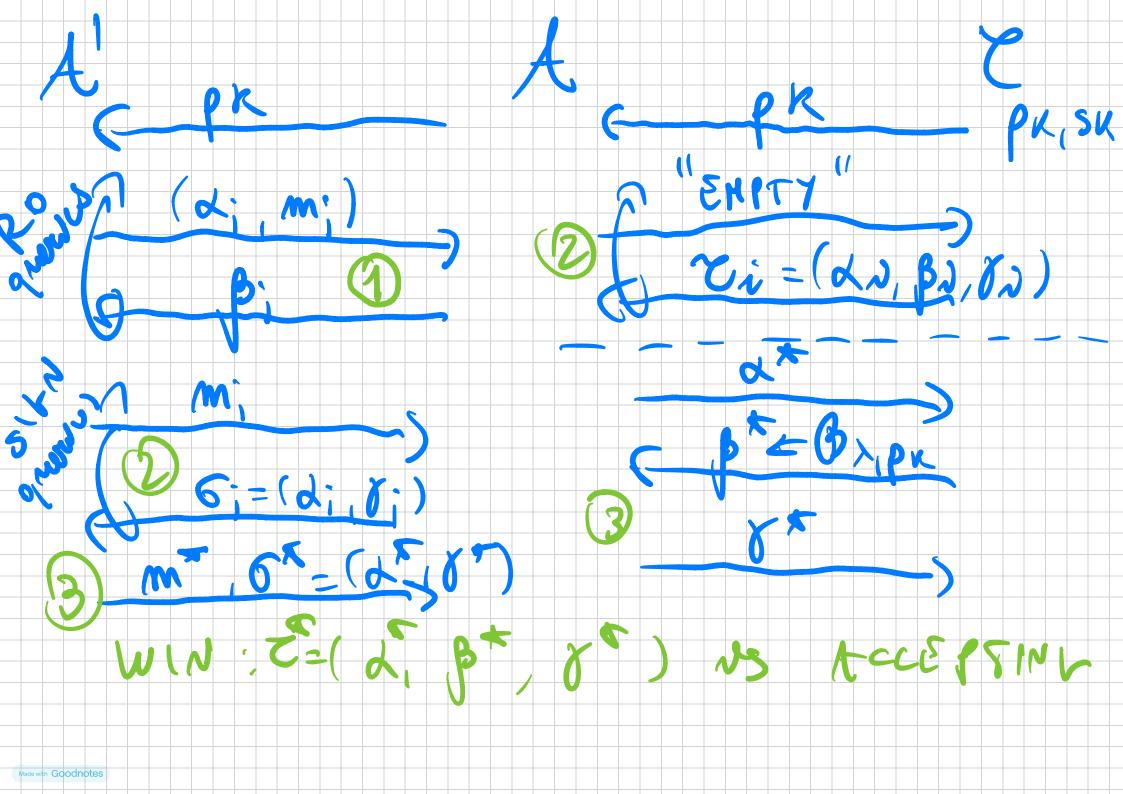
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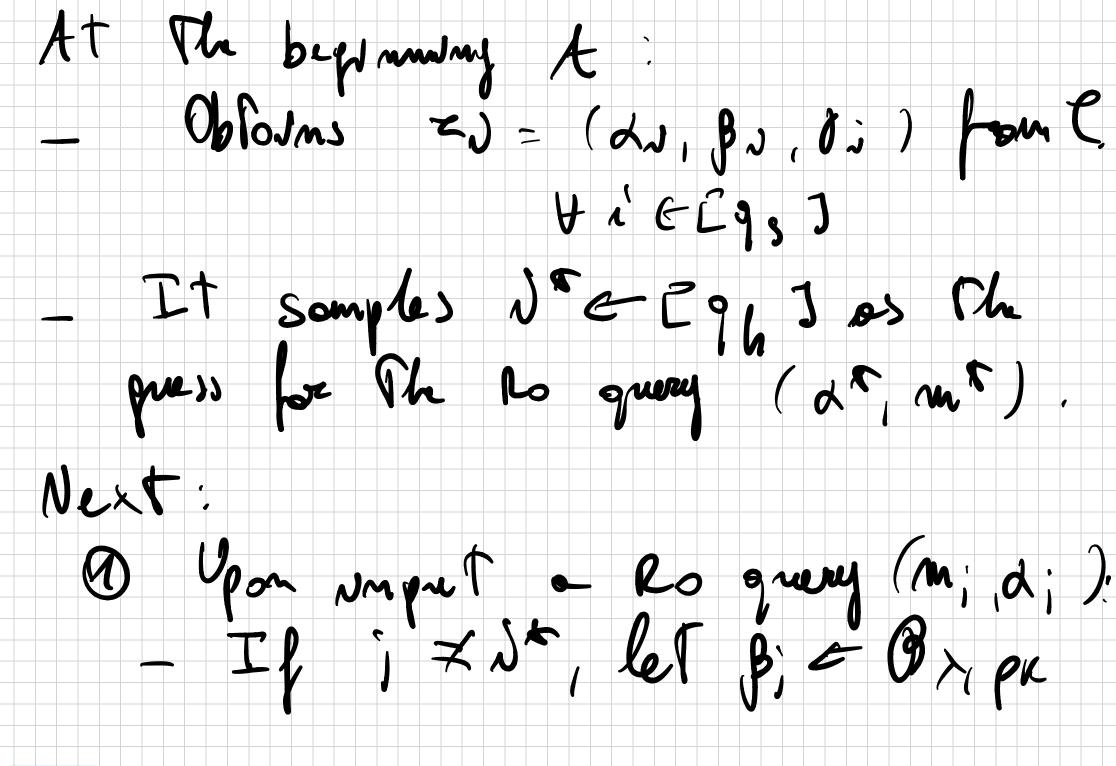
- mepl (1) > \(\xi\) - \(\mathreal\) \(\lambda\) \(\lambda\) \(\lambda\) \(\lambda\) \(\lambda\) \(\lambda\) \(\lambda\)

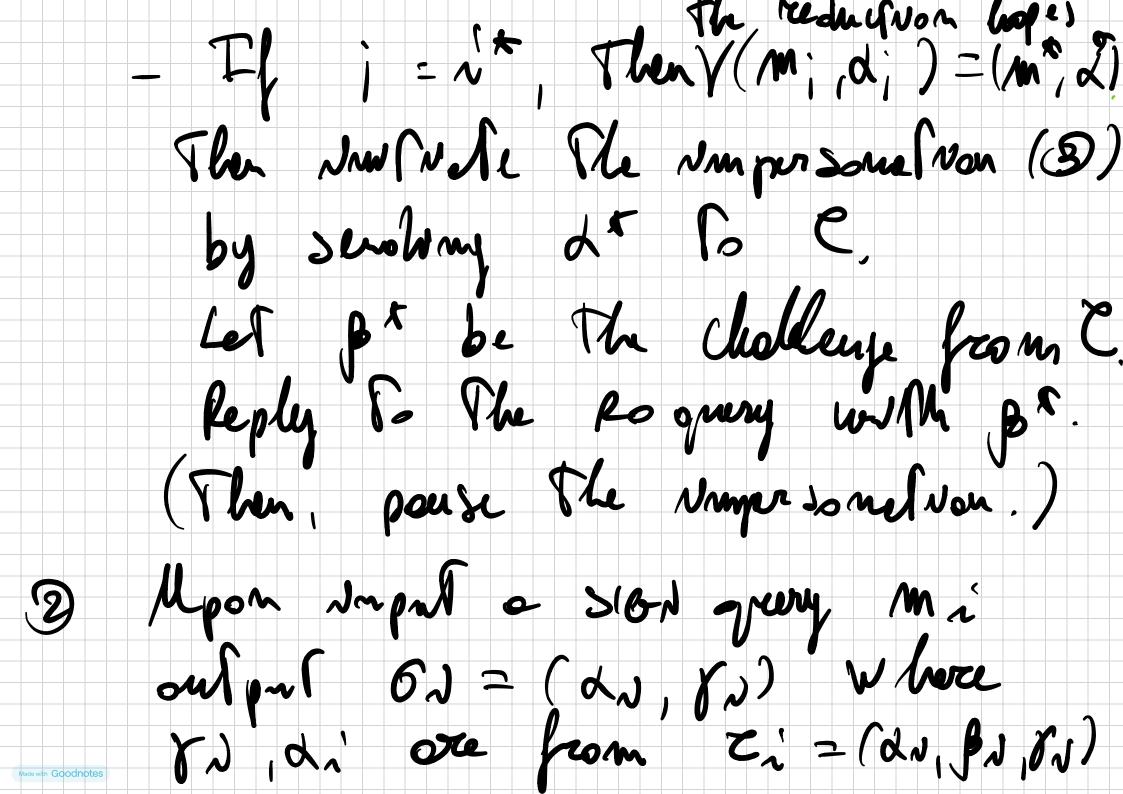


w/h /3 = H (d, m) THM ASummy II NO NON-TRIVIAL OLUI PASSIVELY SECURE, Plus 5 NS UF CMA m The Rott. Proof. Let A' be a PPT adv. breating vector of Z v.p. 1/ poly (1). Wlog. we mole a few assumptions ont: - It mur repeats queris Goodnotes Oe Cours Coch Sofme (Way grang Ma





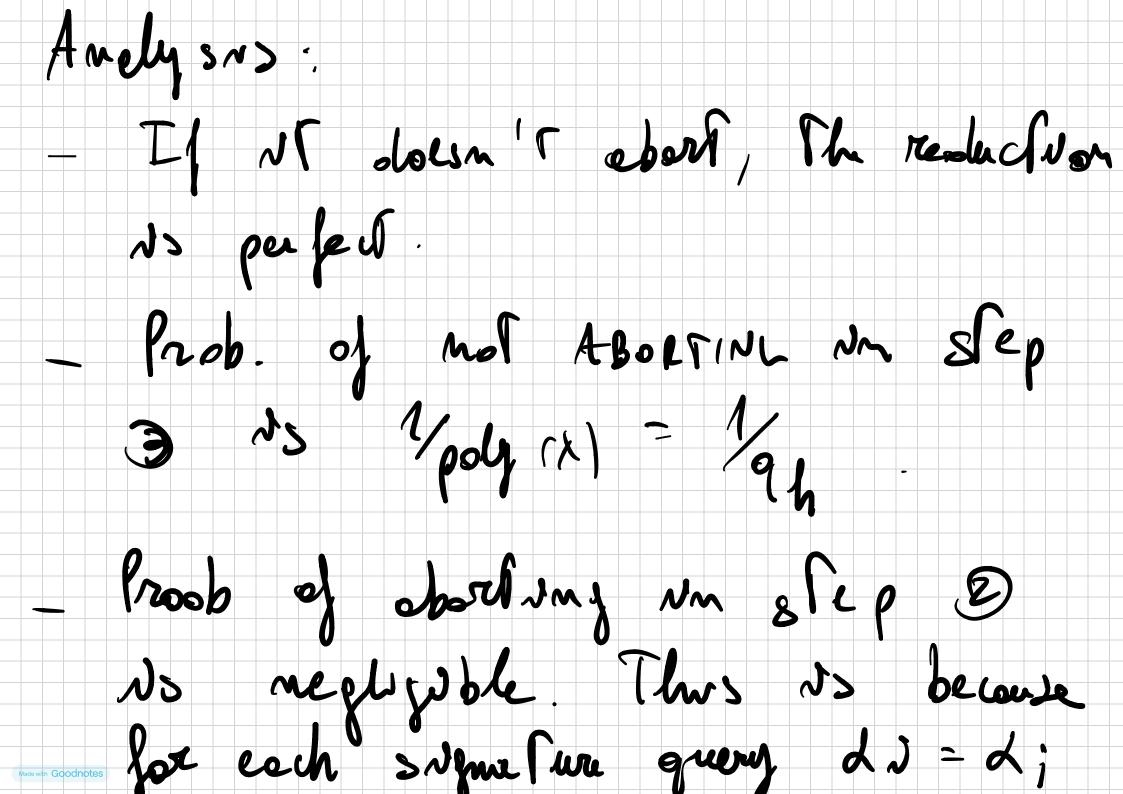




Also, program The Ro J. T. If (d), m) = b).

If (d), m) was queved before To The Ro, Then ABORT. When t only 15 m*, 6 = (d*, 1*) ched The the guess on 2 was Correct. If not, About.

If yes, resure 3 and send



from a previous Ro greeny VIII megl prob. by NON-TRIVIALITY of IT -) Prob. of NoT ABORNAGE (1)

2) No ! (1-95. Megl (1)) $\geq /\rho dy(\lambda)$ =) Path wins 7 > foly (1) poly Pat A was J

In the mext comple of lections we wall study - Cott but of post-a month let's de poll for the loss topal. *) ZK for ell of NP. * CCA sewally for PKE.

7m portvulur The GRATEF-SHOUP PKE from DDH.

4) LDENCITY -BASED ENCHYPTION. *) Como wash we are keys: What hoppers when the sever Key is not infoRM but has John Min - Cutapy. _ Willelso do om Selwon exeruses.