MPC Monday, October 25, 2021 3:54 PM

2K+1 received stores. > we can conclude it is the connect-one. Among 24+1 received shores, at most K Gime from maticitys notes, 5 at least K+1 are correct shores. And K+1 arread shares unlyvely determine the smeat Q. N=2K+1 is the million number of serves relative to south takerance & S. which robust internation works. N 7 3 K+1 is the minimum to ensure Ducanteel anyot (if the 2Kt), Irst shares went successful, wait for more and try again. Output once some subject of 2k+1 released share's lie on a deg k poly.). Simulation Security for MPC. K=] Semihanest n=3, Air X\_\_\_\_\_ Idul publish Y \_\_\_\_\_ Function 14 P output Z= X.Y. New Can be Tradi X, Y Similated given just Z Preproc! [a], [b], [ab]. & Alt interpretation i Proudure: Slip a bit other produce the real view, Alice Secretimes(X) Bib secret shares (Y) or the smulation, These are indistinguishable. Serversi D:= Open ([x]-[a]) A Frall XL, YL, XR, YR, St. YL'XL=YR.XR. E = Open ([1]-[6]) [=] = DE + . . + [ab] -Vew & New R apput z := Open([2]) S, in this protocol? - What is the view of Bar mul

- enumerate everything 5, sees. Total Fp. Server i Sees: [x], [y], ZX · [a], [b], [ab] 3x 2x (deg/pdy) •  $P_D$  from reconstruction 2x  $P_D$  (i) = [x-a] 2x·PE 22 • (} Total 1/x Ap elems.

