Today

What does the network know?

Communication Privacy

Location Privacy

Sensing Privacy / RF-Protect

## does the Network Know? Location Took or Siebel > 3d floor Air on Siebel > hot room are your device are your Buhan MACaddress Macy's S Body Work Historical Location (Collaborate Probing

Passive Connections

Passive Connections

Local for AP to broadcast

Sheck of you have credentials

for hot AP

Rechange info & connect.

Active Problem - Illimois Vet probes > Response from networks Comect.

Type of device

device

Passive Sensing > breathing.

emotional state.

walls. woole through

## ommunication Privacq rando mization. Macys Jellenois Net CMI Aloport. RealMAG Connect Mocy's

Timing-based Attacky

Conned.

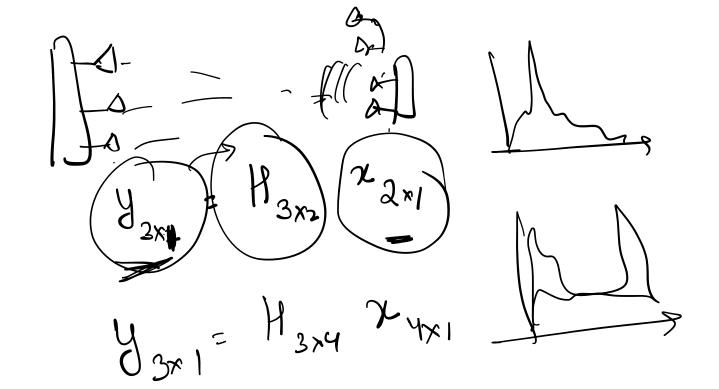
Silver jither jither jither

Jiming- jither based defenses kind grew.

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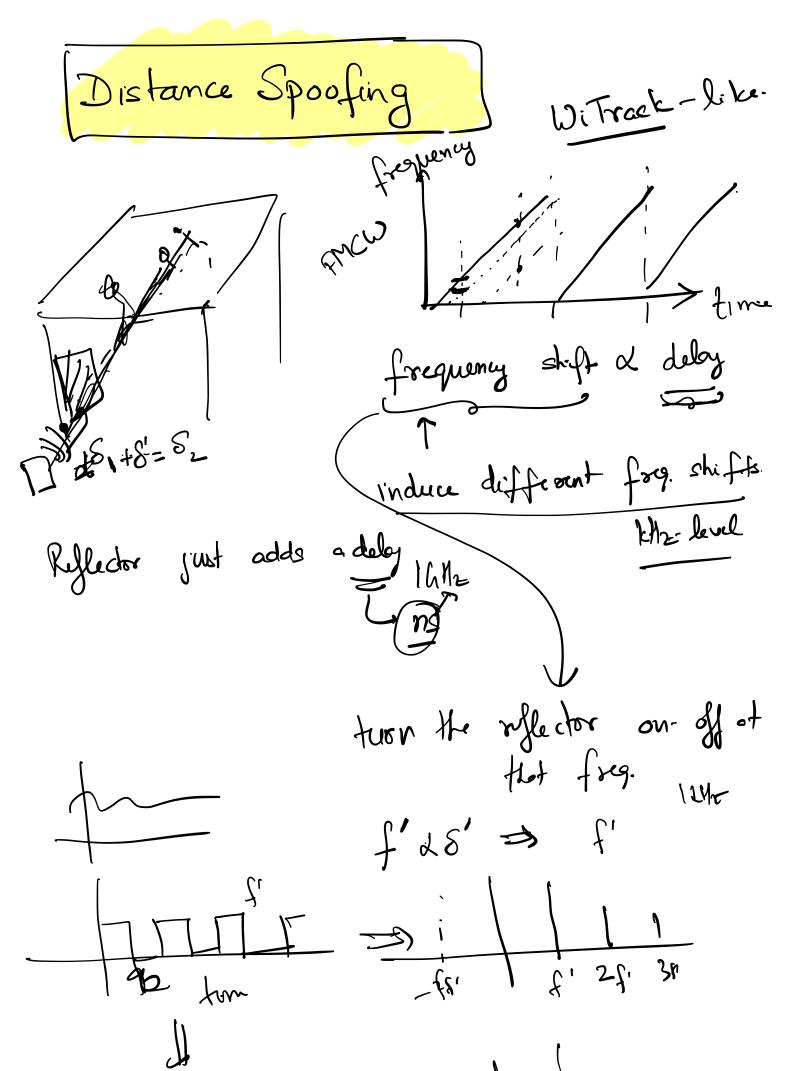
Location Privacy > Buildiy-level location Room-level locations Distance Ingle gardomiże Theoros this time by a bit reduce Tof based loca

accused Random noise advirsary con



Privacy Sensing make this person dusapper is ver hord. distances Spoof Angles Realistic.





AAA

Angle Spoofing Switch Swilzh across behveer ontennos frequer Distance & Angle -> how do & moke it sectioni? Generation Adversarial - Advers ory predict red or fake. Conditional CAAN

nitations > People through walls! > generate toojectories that

do not intersed the

coll.

In put the floor plan in to

the GA. 4 Wirfi

## RF-Protect Demo