Interactive Protocol

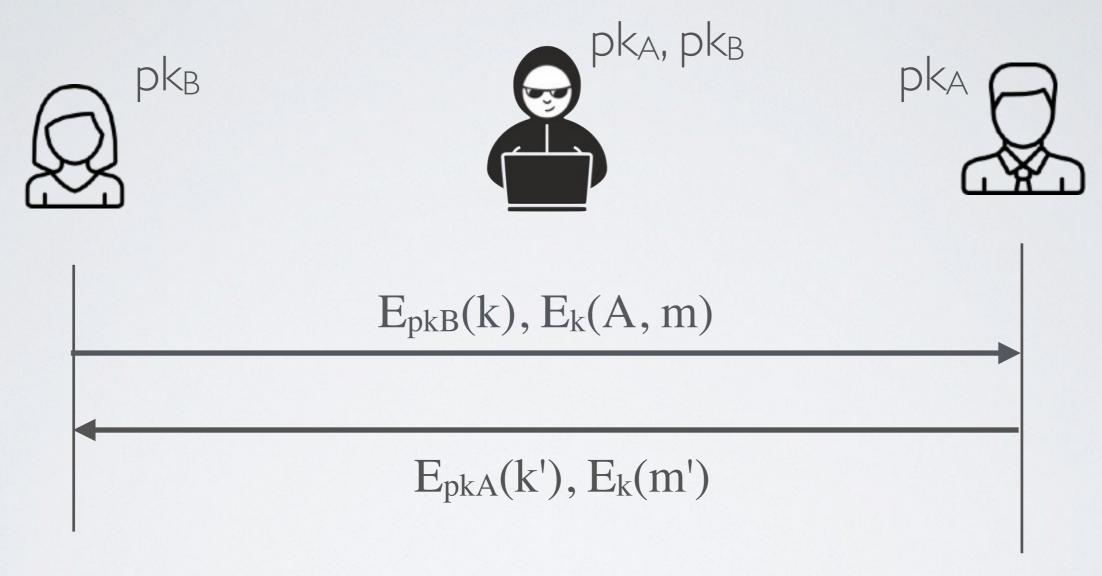
System Hypothesis

- Synchronous communication channel
- Each participant has a public key pair and everybody knows everyone's public keys
- Mallory can read, modify and forge message send over the network

Goals

 When two participant exchange a message, the system should protect the confidentiality, integrity and perfect forward secrecy of the messages

[broken] Key Wrapping



- Replay attack
- No Forward Secrecy
- Bad Authentication