

Passing pre-defined CEK using PQC KEM

Sender

- Generate random CEK
- Encapsulate random SS
 - $(CT, SS) = \text{KEM.Enc}(\text{Recipient_Pubkey})$
- Compute $R = \text{XOR}(SS, \text{CEK})$
- Transmit (CT, R)
- Use CEK

Receiver

- Receive (CT, R)
- Decapsulate SS
 - $SS = \text{KEM.Dec}(\text{Recipient_Privkey}, CT)$
- Compute $\text{CEK} = \text{XOR}(SS, R)$
- Use CEK