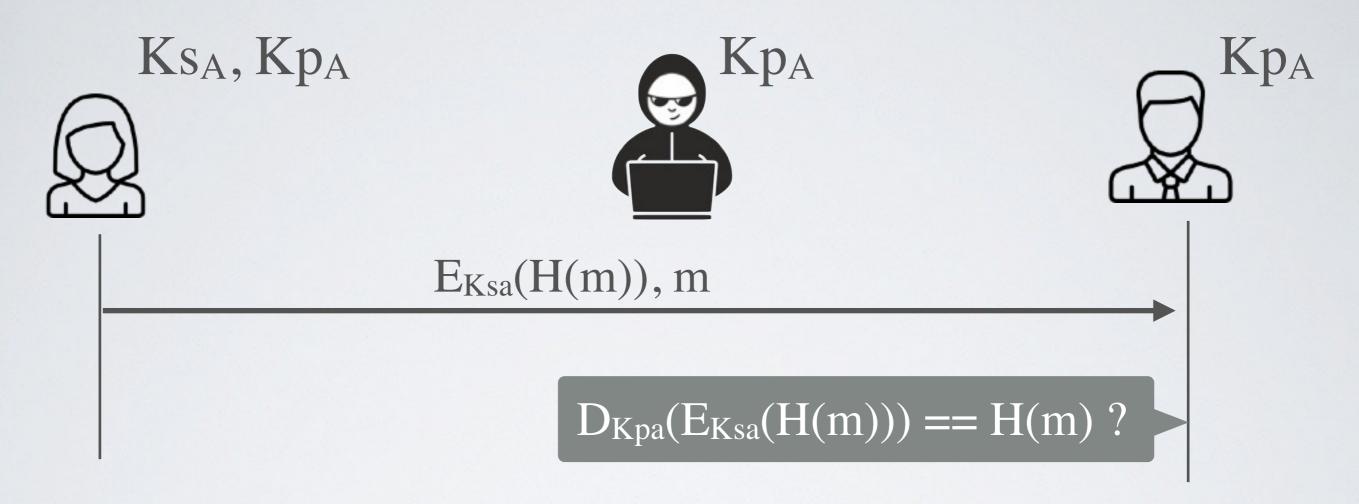
# The Naive Approach of Digital Signatures



- I. Alice signs the message m by encrypting the hash of m with her private key  $Ks_A$
- 2. Alice sends the message m (in clear) and the encrypted hash to Bob
- 3. Bob decrypts H(m) using Alice's public key  $Kp_A$  and verifies that it matches the hash of the message m received

## Digital Signatures Schemes in Practice

## The precursors

- ElGamal signature
- Schnorr signature

### The standards

- DSA Digital Signature Algorithm (RSA-based)
- ECDSA Elliptic Curve Digital Signature Algorithm (ECC-based)

#### The newcomer

• EdDSA - Edwards-curve Digital Signature Algorithm (ECC-based)