Key length and Key n-bit security

- RSA has very long keys, 1024, 2048 and 4096 are common
- Is it more secure than asymmetric crypto with key lengths of 56, 128, 192, 256?
- → Key lengths do not compare !

RSA Key length	Effective key length
1,024	80
2,048	112
3,072	128
7,680	192
15,360	256

Other asymmetric cryptography schemes

Diffie-Hellman (precursor)

→ No Authentication but good for key-exchange

EI-Gamal

→ Good properties for homomorphic encryption

Elliptic Curve Cryptography (trending nowadays)

→ Fast and small keys (190 bits equivalent to 1024 bits RSA)