• The entropy *H*(*A*) measures the uncertainty about the anonymous events:

$$H(A) = -\sum_{a \in \mathcal{A}} p(a) \log p(a)$$

- The conditional entropy H(A|O) measures the uncertainty about *A* after we know the value of *O* (after the execution of the protocol).
- The mutual information *I*(*A*; *O*) measures how much uncertainty about *A* we lose by observing *O*:

$$I(A; O) = H(A) - H(A|O)$$