
OMAR FAWZI, ENS de Lyon

Relative entropy optimization in quantum information

Many quantum information measures can be written as an optimization of a quantum relative entropy between sets of states. Examples include the relative entropy of entanglement (an important entanglement measure) and the relative entropy of recovery (providing operational lower bounds on the conditional mutual information). In this talk, I will discuss applications of such measures, different techniques for expressing them, and algorithms to compute them efficiently. Based mainly on arXiv:1512.02615 and arXiv:1705.06671.