[quantum] Semantic security of infinite-dimensional classical-quantum channels

Generalize semantic security of classical-quantum channels to infinite dimensional channel (not necessarily gaussian)

- [1] finite dimensional classical-quantum case
- finite and infinite dimensional classical case
- [this subpoint can be a project by itself] the finite dimensional case needs to be recast into smooth-max information (instead than Lemma 5.7 of [1]) as the classical case does, this paper proves properties of the smooth-max-inf in finite dimension that we would need for that
- papers regarding the capacity for infinite dimensional channels

**Prerequisites**

quantum information theory

**Advisors**

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