Chapter 1

Learning

1.1 Information-theoretic bounds on quantum advantage in machine learning [HKP21]

1.1.1 Mathematical preliminaries

Definition 1.1.1 (Operator norm).

1.1.2 Physics preliminaries

1.1.3 Introduction

1.1.4 Problem formulation

1.1.5 Information-theoretic bounds

Bibliography

[HKP21] Hsin-Yuan Huang, Richard Kueng, and John Preskill. Information-theoretic bounds on quantum advantage in machine learning. *Physical Review Letters*, 126(19):190505, 2021.