



Quantum Computing Seminar

Quantum universality and magic state distillation

By

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Abstract: Stabilizer circuits can be promoted to quantum universality via the injection of magic states. An open question is the determination of precisely which non-stabilizer quantum states can be considered “magic”. Following Reichardt, we discuss magic state distillation protocols that tighten the boundary between the classically efficiently simulatable regime and that of full universal quantum computation.

References: Reichardt (2005); arXiv:0608085
References: Reichardt (2009);
<https://core.ac.uk/download/pdf/44132852.pdf>

Date: Friday, March 31, 2023

Time: 14:30

Place: SA141 - Mathematics Seminar Room & ZOOM

To request the event link, please send a message to selman.ipek@bilkent.edu.tr