

MIT iQuHack 2026

2B or not 2B:

The Pulse of Innovation:

Bridging Classical and

Quantum Optimization



FLMA8 Submission - Sareen, Sara, Fadia, Ahmad, Leena

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The Strategy

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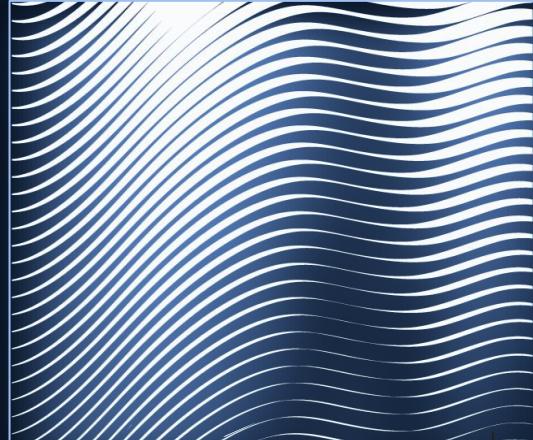
The Process

03

The Results

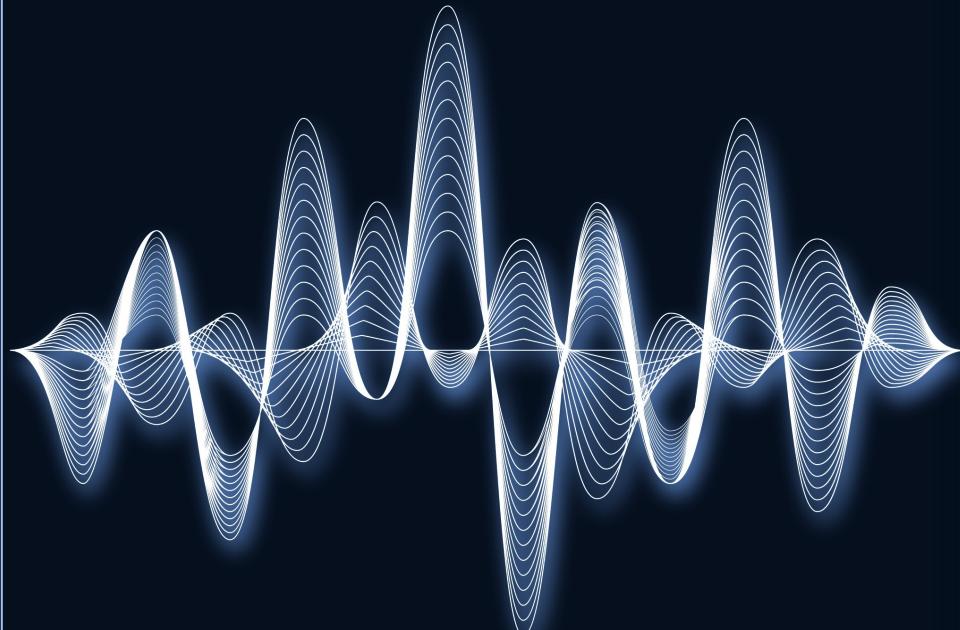
04

The Retrospective



Strategy

- Variational Quantum Eigensolver (VQE)
- Ai Agent Support
- Classical Stage (MTS)



The Process

Hybrid Quantum → Classical Pipeline

It's the biggest planet in the Solar System

AI Agents

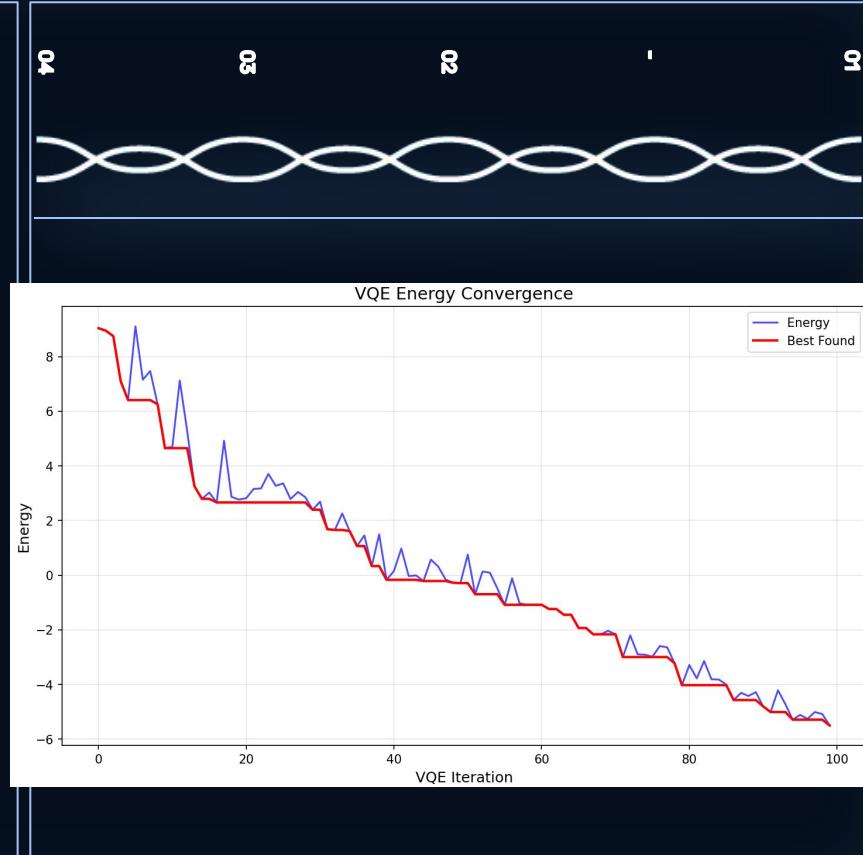
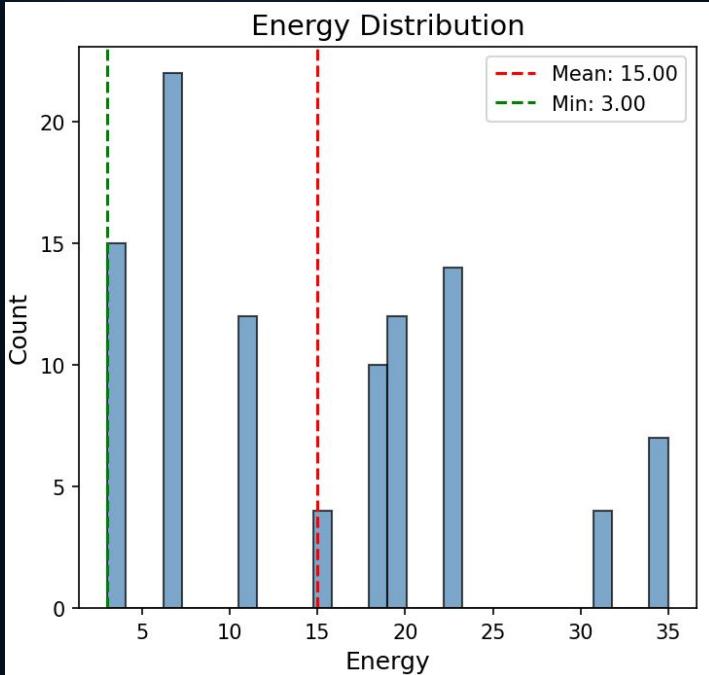
Support in the validation and generation of outputs

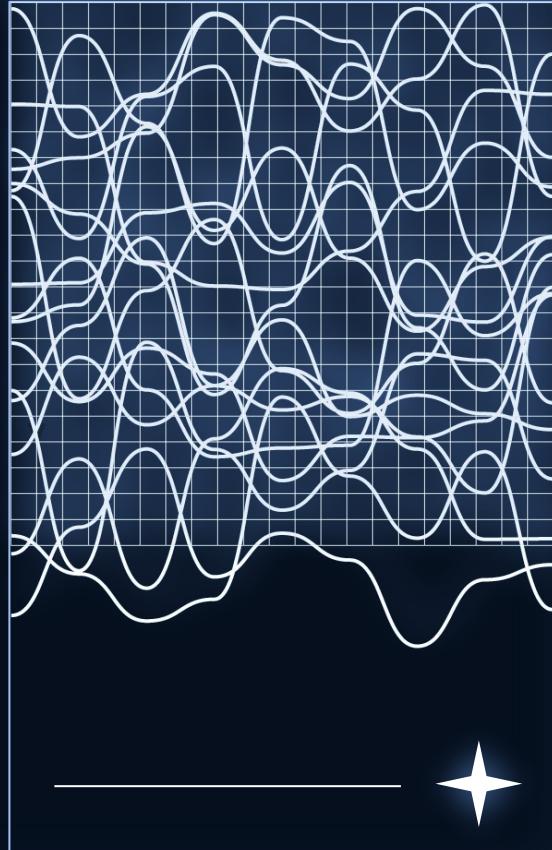
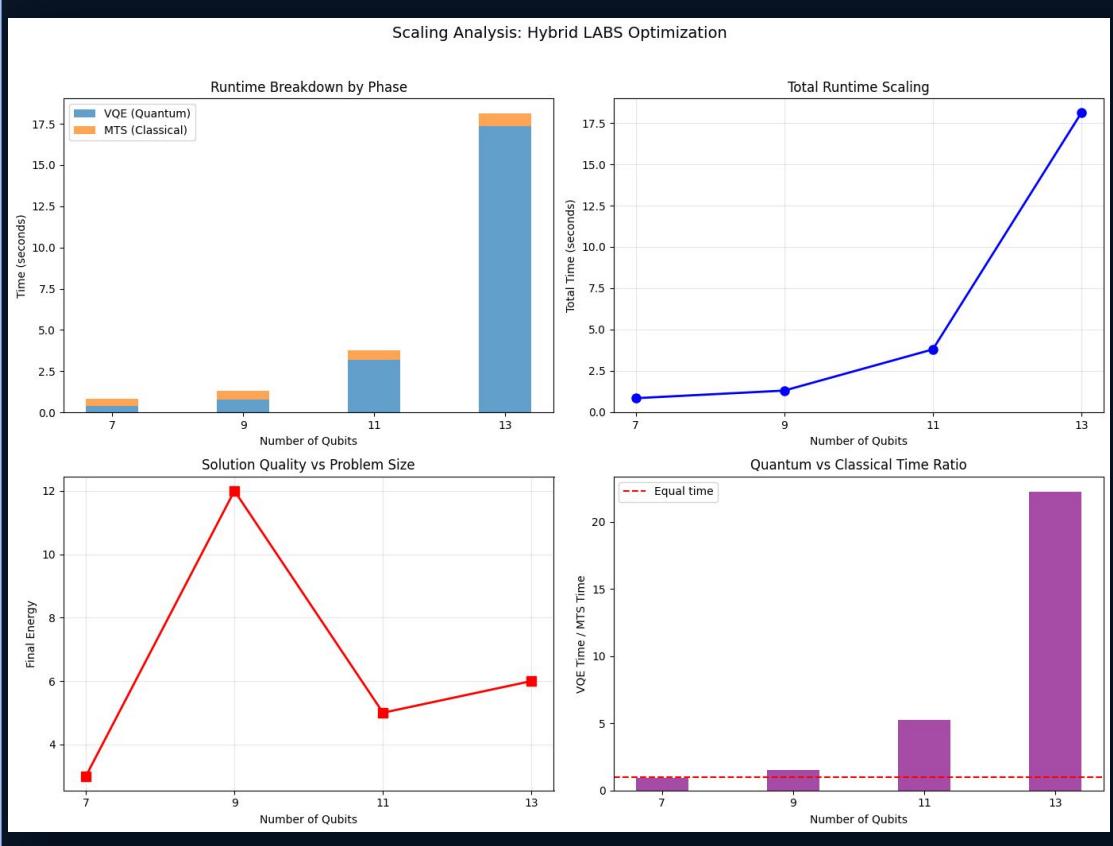
AutoCorrelation

VQE → MTS → C++ Validation



Results





RETROSPECTIVE



GPU Programming



Application



Time



THANK
YOU