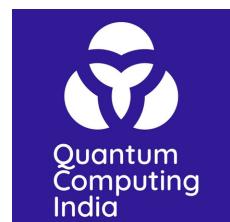
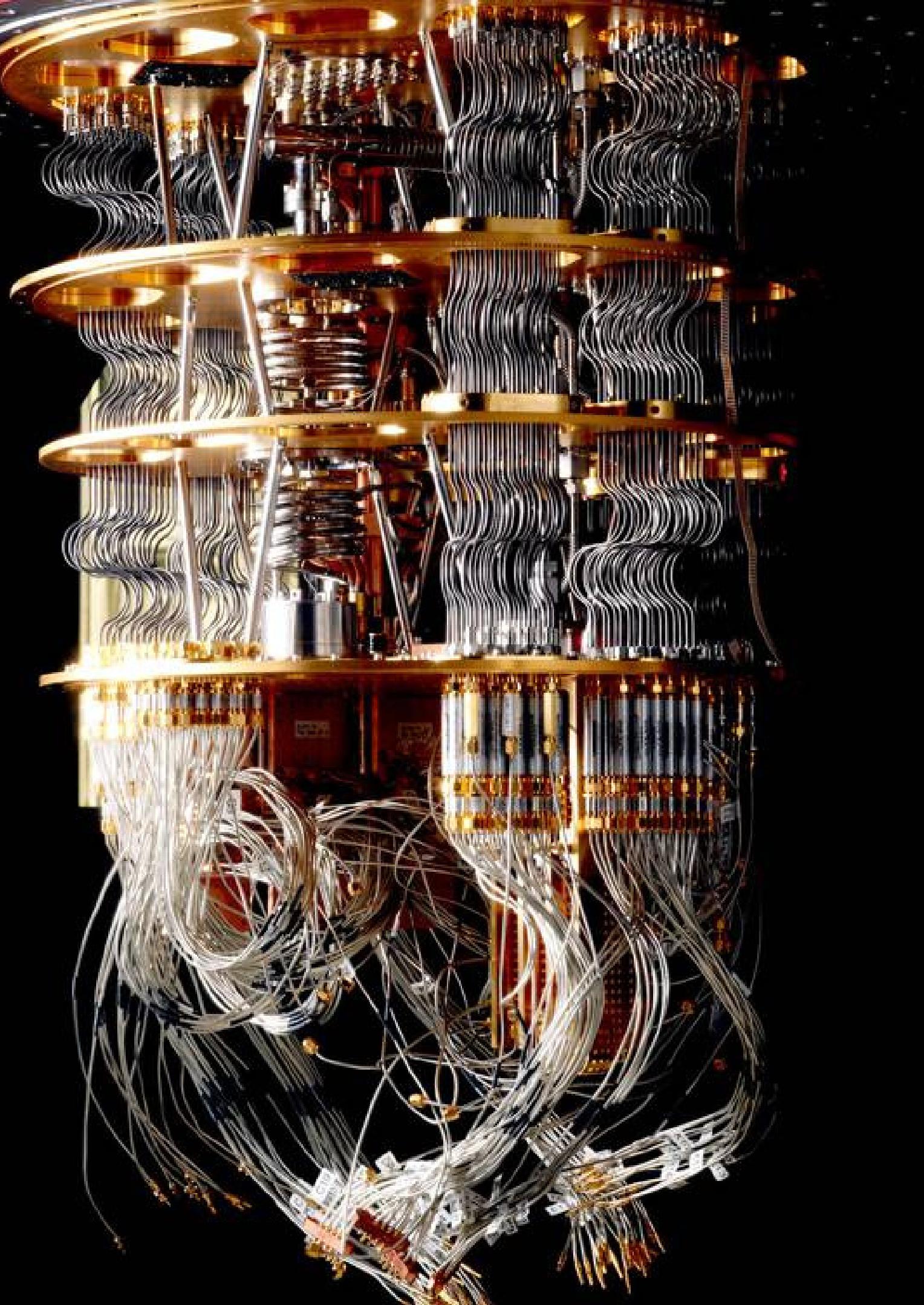


Quantum Winter 2020

TriQ | Vishal | Simran | Tanay

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Core Approach

Since solving the PDE as a linear equation was the main concern, we looked in the following steps:

1. Computation and storing large arrays of numbers in relatively low number of qubits (2048 addresses @ 11 Qubits QRAM implementation, Phase storage of representative states)
2. Reutilize left over space in the QRAM to store other matrix
3. Solve Linear equation using Spectral Method as per <https://arxiv.org/pdf/1901.00961.pdf>
4. Evaluate Wall time against classical implementation
5. Error mitigation in implementation of PDE_Oracle

Did we succeed?

Yes part....

Learning the things what the industry requires or the approach to which the world might go to. This insight gained is priceless. This process is something that will be cherished and its lessons remembered for quite a long while ahead :)

Not so yes part...

Although we had an approach to go forward to, Implementation part really fell short this time. We will surely continue this thing and look forward ahead!

Thank you!

-TriQ