Contribution ID: 45 Type: not specified

## **Quantum Computing for Feynman Integral Reduction**

Wednesday, 12 September 2018 12:05 (25 minutes)

At the LHC, theory uncertainties are starting to become the dominant uncertainty for certain processes. One of the limiting factors is the ability to calculate loop diagrams for high number of loops. Here I propose a quantum algorithm that can be used to work towards removing this barrier.

Primary author: ISAACSON, Joshua

Presenter: ISAACSON, Joshua

**Session Classification:** Session 2