

# Computing with photons

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**Jose Ignacio Latorre**

*NUS, Singapore*

[phyjil@nus.edu.sg](mailto:phyjil@nus.edu.sg)

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We present a scheme to compute probability distributions using a photonic chip that runs a quantum circuit in unary basis.

This methodology is applied to option pricing in finance.

The same chip can be trained to reproduce probability distributions created with a Generative Adversarial Networks philosophy.