



Contribution ID: 220

Type: Oral Presentation

Implementing the Deutsch Algorithm with classical light

Thursday, 2 July 2015 14:20 (20 minutes)

Abstract content
 (Max 300 words)
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We show an implementation of the Deutsch Algorithm using classical optical elements and a coherent laser source. The encoded qubits are present in form of polarisation and orbital angular momentum. Our approach, based on a Sagnac interferometer, offers excellent stability and demonstrates that optical quantum computation is achievable using classical states of light.

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and his / her institution

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Session Classification: Photonics

Track Classification: Track C - Photonics