一般セッション(口頭講演) | 4 JSAP-OSA Joint Symposia 2021 | 4.7 Quantum Optics and Nonlinear Optics

[11a-N307-1~9]4.7 Quantum Optics and Nonlinear Optics

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2021年9月11日(土) 09:00 ～ 12:15 N307 (口頭)

△：奨励賞エントリー

▲：英語発表

▼：奨励賞エントリーかつ英語発表

空欄：どちらもなし

09:00 ～ 09:30

▲[11a-N307-1]Xanadu Cloud &Gaussian Boson Sampling

○Rafal Janik[1] (1.Xanadu)

キーワード：photonics, quantum computing, cloud

Xanadu is a Canadian quantum technology company with the mission to build quantum computers that are useful and available to people everywhere. Founded in 2016, Xanadu is building towards a universal quantum computer using silicon photonic hardware and offers users access to near-term quantum devices through the Xanadu Cloud platform. The focus of this talk will be to provide a technical overview of Xanadu’s programmable Gaussian Boson Sampling (GBS) hardware and how they can be accessed over the cloud for quantum algorithm development. In addition to hardware access, the Xanadu Cloud provides users with access to high-performance quantum simulators and managed services for the leading software library for quantum machine learning, PennyLane.