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Quantum computers have the potential to revolutionize the future. Possessing processing power unmatched by any classical device, applications are already known in codebreaking, database searching, mathematics, and quantum simulation. Optical quantum computing is particularly promising – not only is light relatively immune from noisy interactions with the environment, it is also a natural information carrier, making optical quantum computers easy to interface with a larger quantum information network. In optics, as with other approaches to quantum computing, we need to overcome significant physical challenges – the fragility of quantum systems, the difficulty in individually preparing and controlling large numbers of quantum systems, the substantial resources needed to make them all interact, the problem of high-efficiency measurement.

Publication :

[1] A review on Sustainable Materials Research for optical switching of Future Optical Computer Technology, Shubrajyotsna Aithal, P.S. Aithal and Gopalkrishna Bhat, MANEGMA 2012- Proceedings of National Conference on Sustainable Growth in Developing Economies, Manegma 2012 held at Srinivas Institute of Management Studies, Mangalore on 12/04/2012