

1135-VN-2041 **Parshuram Budhathoki*** (pbudhath@cameron.edu), 2800 West Gore Blvd., Department of Mathematical Sciences, Cameron University, Lawton, OK. *Quantum Circuits for Multiplication Operation*. Preliminary report.

Quantum circuits for multiplication operation are one of the cost critical tasks in the design of the circuits for many quantum algorithms, such as Shor's algorithm. A basic goal is to keep the qubits, gates, depth and ancilla as low as possible. In the meeting we are going to talk about an efficient quantum circuits for multiplication operation. (Received September 25, 2017)