Analog Logic Gate of Structured Light based on Nonlinear Optical Networks Second Cycle Integrated Project

Joana Bonito

Master Student

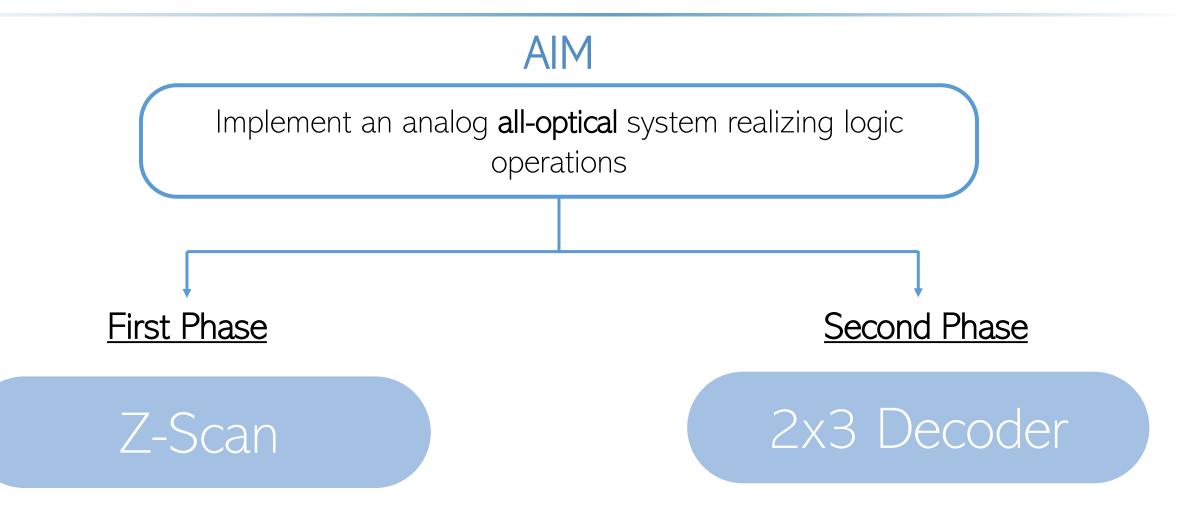
Supervisor:
Prof Marco Piccardo





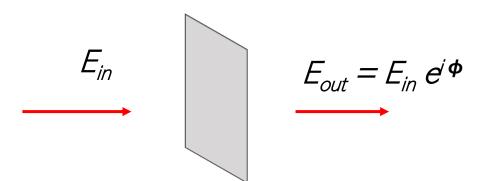


Thesis

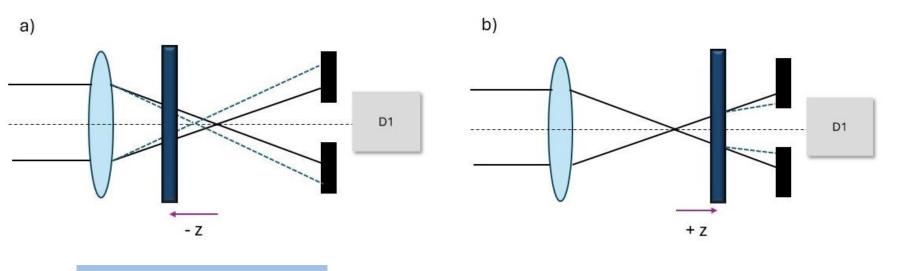


Z-Scan and Kerr Effect

Valley in T curve



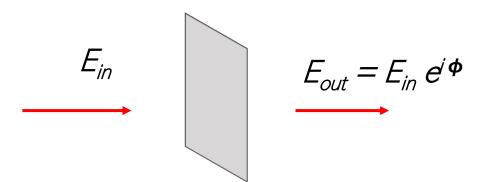
Phase Shift: $\delta \Phi = \frac{2\pi}{\lambda} n_2 LI$



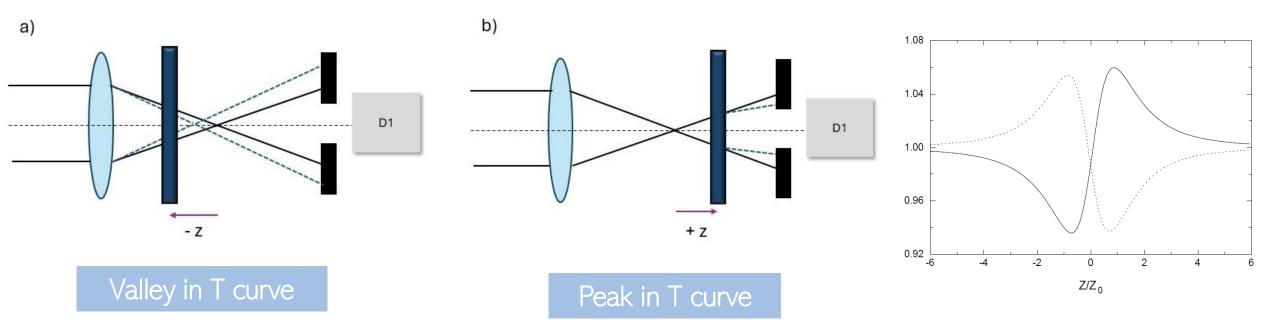
Peak in T curve

3

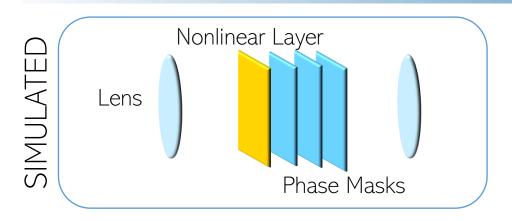
Z-Scan and Kerr Effect



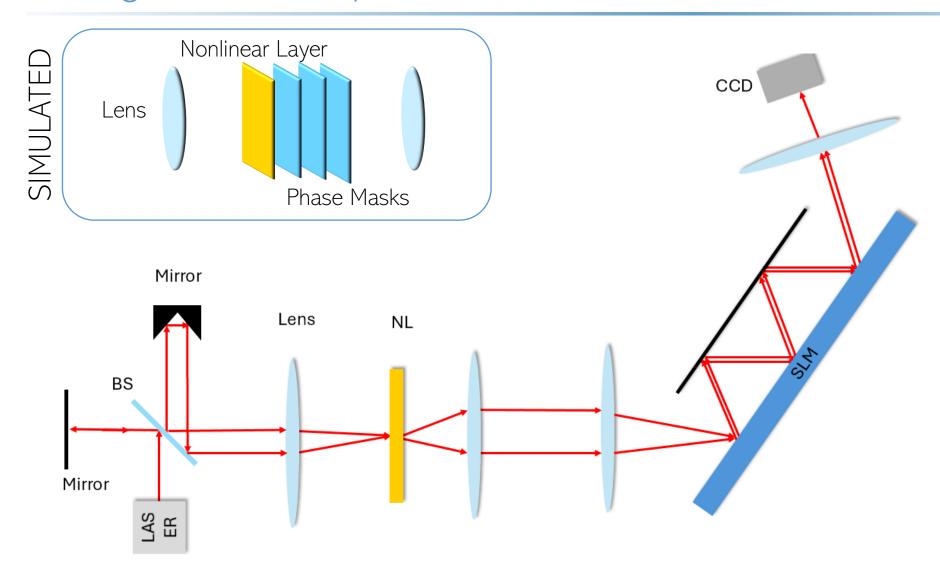
Phase Shift: $\delta \Phi = \frac{2\pi}{\lambda} n_2 LI$



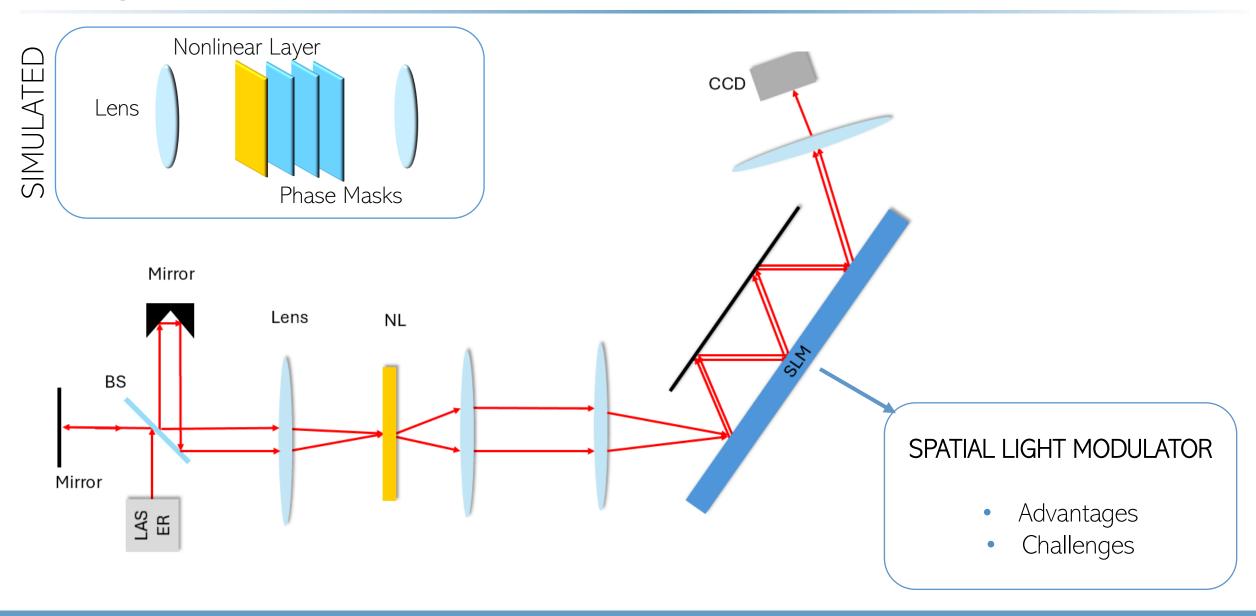
Design of the Experiment



Design of the Experiment



Design of the Experiment



Thank you!



