
Abbreviations

QIP- Quantum Information Processing
HBT- Hanbury Brown and Twiss
EPR – Einstein, Podolosky and Rosen
COM- Cavity Optomechanics
OMS- Optomechanical System
PPCS – Passive-Passive Cavity System
PACS – Passive-Active Cavity System
EOM- Equations of motion
HLE – Heisenberg-Langevin Equation
FTP- Forward transmission Profile
BRP – Backward Reflection Profile
FTR- Forward transmission Rate
BRR – Backward Reflection Rate
OB – Optical Bistability
OQS – Open Quantum System
DPT – Dynamical Phase Transition
HSG – Higher order Side band Generation
EP – Exceptional Point
MPCPN – Mean Passive Cavity Photon Number
WGM – Whispering-Gallery-Mode
PT-Symmetric – Parity-Time-Symmetric
QS – Quantum Systems
PD – Probability Distribution
FFT – Fast Fourier Transform
RWA – Rotating Wave Approximation