Cavity quantum electrodynamics with quantum dots in microcavities

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Appendix C

Glossary of Terms

AFM: atomic force microscopy
APD: avalanche photodiode
CW: continuous-wavelength
He: Helium
CaSe: Cadmium Selenide
CQED: Cavity quantum electrodynamics
CCD: charge-coupled device
DBR: distributed Bragg reflector
FWHM: Full-Width-Half-Maximum
GaAs: Gallium Arsenide
He: Helium
HeNe: Helium-Neon
HF: Hydrofluoric acid
HG: Hermite-Gaussian
HH: heavy-hole
HV: high vacuum
InAs: Indium Arsenide
InP: Indium Phosphide
ICPRIE: inductively coupled plasma reactive ion etching
JCM: Jaynes-Cummings Model
LH: light-hole
MBE: molecular beam epitaxy

NA: numerical aperture
OD: optical density
OFHC: Oxygen-free high thermal conductivity
PC: photonic crystal
PD: photodiode
PEEK: Polyether ether ketone
PL: photoluminescence spectroscopy
RWA: rotating wave approximation
SE: spontaneous emission
SEM: scanning electron microscope
SiGe: silicon-germanium
TRIM: Transport of Ions in Matter
QD: Quantum Dot
QED: Quantum Electro Dynamics
UHV: ultra-high vacuum
VCSEL: vertical-cavity surface-emitting laser
WL: wetting layer
ZnSe: Zinc selenide

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