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Title: Cavity quantum electrodynamics with quantum dots in microcavities

Issue Date: 2012-06-19

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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