

Appendix A

Abbreviations Used in this Thesis

ALS = advanced light source

ARPES = angle resolved photoemission spectroscopy

BBO = β -Barium Borate

BCS = Bardeen, Cooper and Schreiffer theory of superconductivity

Bi2212 = $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$

BSCCO = $\text{Bi}_2\text{Sr}_2(\text{CaCuO})_n\text{CuO}_6$

CW = continuous wave

EELS = electron energy loss spectroscopy

EDC = energy distribution curve

FL = Fermi liquid theory

FWHM = full-width half-max

HWHM = half-width half-max

KBBF = $\text{KBe}_2\text{BO}_3\text{F}_2$

KK = Kramers-Kronig transformation

LEED = low energy electron diffraction

Lor = Lorentzian

MFL = marginal Fermi liquid theory

MDC = momentum distribution curve

PDH = peak-dip-hump

SHG = second harmonic generation

STM = scanning tunneling microscopy

SQUID = superconducting quantum interference device

OD = overdoped

OP = optimally doped

RGA = residual gas analyzer

UD = underdoped

UHV = ultrahigh vacuum

XPS = x-ray photoemission spectroscopy

YBCO = $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$