Appendix D

Acronyms

BAD benzoic acid dimer (cf. Sec. 3.3.2)

CRP Cartesian reaction plane (cf. Sec. 5.2.2)

CRS Cartesian reaction surface (cf. Sec. 5.2)

DOF degree(s) of freedom (cf. Sec. 1.1)

EMM extended Makri-Miller model (cf. Sec. 3.2)

FAD formic acid dimer (cf. Sec. 3.3.2)

FFAD fluoro formic acid dimer (cf. Sec. 3.3.2)

FNM full(-dimensional) normal mode (cf. Sec. 5.2.1)

GT path Garrett-Truhlar path (cf. Sec. 3.1.3)

HAT hydrogen atom transfer (cf. Sec. 1.1)

HJE Hamilton-Jacobi equation (cf. Sec. 2.1.2)

IRP intrinsic reaction path (cf. Sec. 2.2.1)

IRC intrinsic reaction coordinate (cf. Sec. 2.2.1)

MCTDH muti-confi guration time-dependent Hartree (cf. Sec. 2.3.1)

MM Makri-Miller model (cf. Sec. 3.1.1)

PES potential energy surface (cf. Sec. 1.1)

QSA quantum-semiclassical approach (cf. Sec. 4.1)

RNM reduced(-dimensional) normal mode (cf. Sec. 5.2.1)

SMC symmetric mode coupling (cf. 2.2.3)

TU theory Takatsuka-Ushiyama tunneling theory (cf. Section 2.1.4)

WKB theory Wentzels-Kramers-Brillouin theory (cf. Sec. 2.1)

ZPE zero-point energy (cf. Sec. 3.1.3)