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The anharmonic infrared spectra of polycyclic aromatic hydrocarbons

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THE ANHARMONIC INFRARED SPECTRA
OF POLYCYCLIC AROMATIC HYDROCARBONS

PROEFSCHRIFT

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de graad van Doctor aan de Universiteit Leiden,
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volgens besluit van het College voor Promoties
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door
Cameron J. Mackie
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in 1984

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Cover: Depicted on the cover is a golden hexagon inscribed with an ancient Greek phrase. In Greek mythology, the goddess Eris having been spurned by the other gods, wanted to cause discord and *inharmonicity* between them. She crafted a golden apple, and on this apple she inscribed “τῇ καλλίστῃ”, which translates to “to the Fairest One”. She tossed this Apple of Discord amongst the gods, knowing they would each think themselves the fairest and fight over who is the true owner of the gift. In an analogous manner, this thesis aims to introduce *anharmonicities* into the infrared spectra of PAHs; a Benzenoid of Discord tossed amongst the PAHs.

To the Fairest One

“Science may be described as the art of systematic over-simplification – the art of discerning what we may with advantage omit.”

-Karl Popper

TABLE OF CONTENTS

1	Introduction	1
1.1	Interstellar PAH hypothesis	7
1.2	Spectroscopy	8
1.2.1	Infrared spectroscopy	11
1.2.2	PAH IR signatures	11
1.2.3	Infrared cascade spectrum of PAHs	13
1.3	Theoretical spectroscopy	15
1.3.1	Density functional theory	16
1.3.2	Harmonic approximation	16
1.3.3	Anharmonicities	17
1.4	In this thesis	23
1.5	Outlook	25
2	Linear transformation of anharmonic molecular force constants between normal and Cartesian coordinates	27
2.1	Introduction	28
2.2	Derivation of the eigenvectors	29
2.3	Derivation of the transformations equations	32
2.4	Deriving the partial derivatives	34
2.5	Implementation details	35
2.6	Application to H ₂ O and c-C ₃ H ₂ D ⁺	36
2.7	Conclusions	38
3	The anharmonic quartic force field infrared spectra of three Poly- cyclic Aromatic Hydrocarbons: naphthalene, anthracene, and tetracene	39
3.1	Introduction	40
3.2	Theory	42
3.3	Methods	45

TABLE OF CONTENTS

3.3.1	Theoretical Methods	45
3.3.2	Experimental Methods	47
3.4	Results	48
3.4.1	Full infrared range	48
3.4.2	CH-stretching region	60
3.5	Discussion	61
3.5.1	Full infrared range	61
3.5.2	CH-stretching region	62
3.5.3	Astrophysical implications	64
3.6	Conclusions	65
3.7	Appendix	67
4	The anharmonic quartic force field infrared spectra of five non-linear Polycyclic Aromatic Hydrocarbons: benzanthracene, chrysene, phenanthrene, pyrene, and triphenylene	71
4.1	Introduction	72
4.2	Theory	73
4.3	Methods	75
4.3.1	Theoretical Methods	75
4.3.2	Experimental Methods (MIS)	76
4.3.3	Experimental Methods (High-resolution Gas-phase)	77
4.4	Results	77
4.5	Discussion	78
4.5.1	MIS	78
4.5.2	High-temperature gas-phase	85
4.5.3	C-H stretching region (low-temperature gas-phase)	86
4.5.4	Astrophysical implications	87
4.6	Conclusions	87
4.7	Appendix	89
4.8	Supplemental Material	92
5	The anharmonic quartic force field infrared spectra of hydrogenated and methylated PAHs	113
5.1	Introduction	114
5.2	Theoretical Methods	115
5.3	Results	115
5.4	Discussion	119
5.4.1	Overall comparison to the low-temperature high-resolution gas-phase spectra	119
5.4.2	Overall comparison to MIS	122
5.4.3	Anthracene series	122
5.4.4	Hydrogenated series	124
5.4.5	Astrophysical implications	126
5.5	Conclusions	127
5.6	Supplemental Material	130

6	Accounting for large numbers of resonances in temperature dependent infrared spectra	159
6.1	Introduction	160
6.2	Theory	160
6.2.1	Polyads	160
6.2.2	Temperature spectra	161
6.3	Temperature polyads	162
6.4	Methods	163
6.5	Results	163
6.6	Conclusions	167
7	Fully anharmonic infrared cascade spectrum of polycyclic aromatic hydrocarbons	169
7.1	Introduction	170
7.2	Theory	172
7.2.1	Anharmonicity	172
7.2.2	Resonances and polyads	173
7.2.3	Temperature dependent spectra	175
7.2.4	Polyads and temperature dependence	178
7.2.5	PAH IR cascade spectra	180
7.3	Implementation	181
7.3.1	Quartic force fields	181
7.3.2	VPT2	181
7.3.3	Polyads	183
7.3.4	Wang–Landau	183
7.3.5	Cascade spectra	183
7.4	Results	184
7.5	Conclusions	190
	References	192
	Nederlandse samenvatting	201
	Publications	205
	Curriculum Vitae	207
	Acknowledgements	209

