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Molecular radicals in the search for drifting constants

de Nijs, A.J.

2014

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de Nijs, A. J. (2014). *Molecular radicals in the search for drifting constants*.

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Dankwoord

I would like to start by thanking all my colleagues during the four years of my PhD research. Thank you for making it a good time, not in the last place by drinking coffee and having lunch, most preferably outside in the quiet summers. Discussions about our research and about its place in the ongoing scientific progress worldwide. It gave me a far broader view on everything that is ongoing around us, also because we were all working in related, but different fields of research. I learned a lot about coherent control, fiber combs, BECs, microscopy, high power lasers and many more subjects that would otherwise have been outside my reach. Bedankt Jacques en Rob, jullie zorgden ervoor dat ik kreeg wat ik nodig had, wat niet altijd hetzelfde was als waar ik in eerste instantie om vroeg. Bedankt werkplaatsen, ik kon altijd snel terecht voor vragen en hulp.

I want to thank a number of people for the help they gave me, some by doing calculations for me, some for their practical advice and discussions. Thank you Bob Field, Robert J. Le Roy, Gerrit Groenenboom, Leo Meerts, Stefan Truppe, Mike Tarbutt, Sebastien Muller, among others. Nathan and Dima, thanks for having me over. I had a great time, professionally and personally. Thank you Guido van Rossum, Colin Western and Stephen Wolfram for enabling all my calculations. En bedankt Laura, omdat je liet zien hoe scheef mijn opstelling oorspronkelijk was.

Vrienden en familie, jullie hielden me gaande, door de spelletjes, de biertjes, feestjes, jullie eigen AIO-ervaringen, vakanties, sport kijk- en besprekessies, de films, verhalen, grappen en nog veel meer.

FOM bedankt voor het financieren van mijn onderzoek, en voor het aanbieden van zoveel goede cursussen en begeleiding naar de toekomst.

Rick en Wim, bedankt voor jullie steun, en voor alles dat jullie me geleerd hebben over natuurkunde en mezelf.

Veronie, bedankt voor alles.

Publications

- *UV frequency metrology on CO ($a^3\Pi$).*
A. J. de Nijs, E. Salumbides, K. S. E. Eikema, W. Ubachs, and H. L. Bethlem.
Phys. Rev. A **84**, 052509 (2011).
- *On deflection fields, weak-focusing and strong-focusing storage rings for polar molecules.*
A. J. de Nijs and H. L. Bethlem.
Phys. Chem. Chem. Phys. **13**, 19052 (2011).
- *Sensitivity of rotational transitions in CH and CD to a possible variation of fundamental constants.*
A. J. de Nijs, W. Ubachs, and H. L. Bethlem.
Phys. Rev. A **86**, 032501 (2012).
- *Testing the mass-scaling relations in the $a^3\Pi$ state of $^{12}\text{C}^{18}\text{O}$ and $^{13}\text{C}^{16}\text{O}$.*
A. J. de Nijs, D. Zhao, H. L. Bethlem, H. Linnartz and W. Ubachs.
J. Mol. Spectrosc. **292**, 20 (2013).
- *Ramsey-type microwave spectroscopy on CO ($a^3\Pi$).*
A. J. de Nijs, W. Ubachs and H. L. Bethlem.
J. Mol. Spectrosc. **300**, 79 (2014).

