

Appendix A

Curriculum Vitae

6 March 1983	Born in Bressanone/Brixen (Bolzano/Bozen), Italy
14 September 2005	Bachelor of Science in Physics, University of Trento, Trento, Italy
4 July 2007	Master of Science in Physics, University of Trento, Trento, Italy
18 November 2010	Doctor of Philosophy in Physics, University of Trento, Trento, Italy

Appendix B

Publications

1. Zecca A., L. Chiari, E. Trainotti, A. Sarkar, S. d'A. Sanchez, M. H. F. Bettega, M. T. do N. Varella, M. A. P. Lima, M. J. Brunger, Positron scattering from methane, *Phys. Rev. A* **85**, 012707 (2012).
2. Chiari L., M. J. Brunger, A. Zecca, Total cross sections for positron scattering from bio-molecules. In *Radiation Damage in Biomolecular Systems*, G. García Gómez-Tejedor, M. C. Fuss (eds.), Springer, Berlin (2012).
3. Zecca A., L. Chiari, E. Trainotti, D. V. Fursa, I. Bray, A. Sarkar, S. Chattopadhyay, K. Ratnavelu, M. J. Brunger, Positron scattering from argon: total cross sections and the scattering length, *J. Phys. B* **45**, 015203 (2012).
4. Zecca A., L. Chiari, A. Sarkar, M. J. Brunger, Positron scattering from the isoelectronic molecules N_2 , CO and C_2H_2 , *New J. Phys.* **13**, 115001 (2011).
5. Zecca A., L. Chiari, E. Trainotti, D. V. Fursa, I. Bray, M. J. Brunger, Experimental determination of the scattering length for positron scattering from krypton, *Eur. Phys. J. D* **64**, 317 (2011).
6. Zecca A., E. Trainotti, L. Chiari, G. García, F. Blanco, M. H. F. Bettega, M. T. do N. Varella, M. A. P. Lima, M. J. Brunger, An experimental and theoretical investigation into positron and electron scattering from formaldehyde, *J. Phys. B* **44**, 195202 (2011).
7. Zecca A., L. Chiari, G. García, F. Blanco, E. Trainotti, M. J. Brunger, Total cross sections for positron and electron scattering from α -tetrahydrofurfuryl alcohol, *New J. Phys.* **13**, 063019 (2011).
8. Zecca A., L. Chiari, G. Garcia, F. Blanco, E. Trainotti, M. J. Brunger, Total cross sections for positron and electron scattering from pyrimidine, *J. Phys. B* **43**, 215204 (2010).
9. Zecca A., L. Chiari, E. Trainotti, A. Sarkar, M. J. Brunger, Total cross section measurements for positron scattering from acetone, *PMC Phys. B* **3**, 4 (2010).
10. Zecca A., L. Chiari, A. Sarkar, S. Chattopadhyay, M. J. Brunger, Procedures for conditioning W- and Ni-moderators for application in positron scattering measurements, *Nucl. Instr. Methods Phys. Res. B* **268**, 533 (2010).
11. Zecca A., L. Chiari, A. Sarkar, K. L. Nixon, M. J. Brunger, Total cross sections for positron scattering from H_2 at low energies, *Phys. Rev. A* **80**, 032702 (2009).

12. Zecca A., L. Chiari, K. L. Nixon, M. J. Brunger, S. Chattopadhyay, D. Sanyal, M. Chakrabarti, Low-energy Positron scattering from dihydropyran, *J. Phys. Chem. A* **113**, 14251 (2009).
13. Zecca A., L. Chiari, A. Sarkar, M. A. P. Lima, M. H. F. Bettega, K. L. Nixon, M. J. Brunger, Positron scattering from formic acid, *Phys. Rev. A* **78**, 042707 (2008).
14. Zecca A., L. Chiari, A. Sarkar, K. L. Nixon, M. J. Brunger, Low-energy positron scattering from methanol and ethanol: total cross sections, *Phys. Rev. A* **78**, 022703 (2008).
15. Zecca A., L. Chiari, A. Sarkar, M. J. Brunger, Positron scattering from 3-hydroxy-tetrahydrofuran, *J. Phys. B* **41**, 085201 (2008).