



### Scholarship Opportunities in Theoretical Atomic Physics

There are three Ph.D. scholarships available in Theoretical Atomic Physics at the Charles Darwin University. The students will be affiliated with the Australian Research Council Center for Anti-Matter Matter Studies (CAMS) at the Australian National University. One scholarship is available for a starting date in the second half of 2009, the others will have starting dates early in the first half of 2010.

The first scholarship will be on the application of the confined variational method (J. Mitroy, J. Y. Zhang and K. Varga, 2008 Phys. Rev. Lett. **101** 123201, Phys. Rev. A 78 123201) to low energy scattering of electron/positrons/positronium from small atoms and molecules. The other two scholarships will be on the general topic of positron/positronium interactions with atoms.

The conditions of the Scholarship are

- All tuition fees will be covered for four years.
- The annual stipend will be \$25,000 (Aust dollars) per year for three years with possible extension for another six months.

Applicants for a Scholarship will be expected to have

- IELTS language test score average of at least 6.5 with no sub-components less than 6.0. (minimum equivalent TOEFL Computer = 235, Paper = 580, IBT = 92).
- A masters degree with a background significant research component in theoretical physics. Areas of theoretical physics most relevant to the project would be atomic or nuclear structure, but candidates with background in other areas will be considered.
- While a Masters degree is preferred, candidates with a Bachelors degree with an excellent academic record will also be considered.
- The more experience in computation the better!

Students who are interested in applying for a scholarship can email me at [jxm107@rsphysse.anu.edu.au](mailto:jxm107@rsphysse.anu.edu.au).

More details about the research activities of my group can be found at

<http://www.cs.cdu.edu.au/homepages/jmitroy/workdesk/atomic.htm>

My last student, Dr Michael Bromley, was awarded the 2003 Bragg Gold medal for the best physics Ph. D. thesis in Australia.