

CCP2 Workshop on Mathematical and Computational Methods in R-matrix Theory

13 - 15 September 2007, University College London, UK

Thursday	
18:00-20:00	Registration and reception Room E7, ground floor, Physics and Astronomy Dept.
Friday	
9:00	R-matrix theory: applications and challenges Phil Burke
9:50	Analysis of anionic complexes within the R-matrix framework Bernd Nestmann
10:30	Coffee break
11:00	R-matrix methods for electronic and nuclear dynamics in molecules Christian Jüngen
11:40	The partitioned R-matrix method Jonathan Tennyson
12:20	Parallel diagonalization methods for R-matrix calculations Andrew Sunderland
13:00	Lunch break (lunch not provided)
14:00	A hyperspherical R-matrix scheme for two-active-electron systems Laurence Malegat
14:40	A B-spline approach for the R-matrix inner region Hugo van der Haart
15:20	2DRMP: fast and accurate calculation of the Slater integrals Stan Scott
16:00	Coffee break
16:30	Towards an ICFTR R-matrix approach

	Nigel Badnell
17:10	Round table
19:00 for 19:30	Workshop dinner The Old Sessions House, Clerkenwell Green EC1
Saturday	
9:00	Laser –assisted electron-atom scattering Kevin Dunseath
9:40	Finite-elements R-matrix calculations: from molecules to the condensed phase Stefano Tonzani
10:20	Coffee break
10:50	An R-matrix method for positron-atom and molecule scattering using explicitly correlated wavefunctions Jan Franz
11:30	Orthogonal and non-orthogonal radial orbital methods in R-matrix electron-atom scattering Martin Plummer
12:10	Closing Remarks Jimena Gorfinkiel

All talks will take place in **Room A1**, top floor, Physics and Astronomy Dept. All coffee breaks will be held in **Room E7**, ground floor, Physics and Astronomy Dept.

To reach Room E7, access the Physics and Astronomy Dept. either from Gower Street and via the Main Quadrangle or from Gower Place through Gower Court (between the Katherine Lonsdale and UCLU/Maths buildings).

Information on how to get to the venue for the conference dinner will be provided during the workshop.

