

Institute of **Physics**
Atomic and Molecular Interactions Group

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1 day meeting
8th June 2006.

**Bell Lecture Theatre, Dept of Physics and Astronomy,
Queen's University, Belfast, Northern Ireland, UK**

(Maps are available at:

<http://www.qub.ac.uk/home/TheUniversity/Location/Maps/MainCampus/>)

Coffee on arrival

- 10.00am **Jason Greenwood (QUB)**
"Intense laser interactions with trapped molecules"
- 10.30am **1st Postgraduate/Postdoctoral session of talks**
- Jarlath McKenna (QUB)**
"D₂⁺ nuclear dynamics in intense few-cycle laser pulses"
- 10.45am **Gary Leighton (Newcastle)**
"Excitation of the 2p⁵ 3p states of neon"
- 11.00am **Shane Scully (QUB)**
"Radiation damage of water"
- 11.15am *Coffee*
- 11.30am **2nd Postgraduate/Postdoctoral session of talks**
- Marcus Mendenhall (Vanderbilt, Nashville)**
"Medical application of highly charged ion beams"
- 11.45am **Tony Cavanagh (QUB)**
"The EBIT in Belfast"
- 12.00am *Presentation of the IOP David Bates prize to Jonathan Tennyson*
- 12.10pm **Jonathan Tennyson (UCL)**
"Bound and continuum states of molecules"

12.55am *Lunch*

14.00pm **Andrew Murray (Manchester)**
“Electron ionization of linear molecules - a search for interferences”

14.30pm 3rd Postgraduate/Postdoctoral session of talks

Chris Lee (QUB)
“Positron-molecule annihilation by capture into vibrational Feshbach resonances of infrared-active molecules”

14.45pm *Coffee*

15.00pm **4th Postgraduate/Postdoctoral session of talks**

Linda Hamonou (Paris and QUB)
“The calculation of atomic polarisabilities”

15.15pm **Mark Tame (QUB)**
“Quantum computing with neutral atoms in optical lattices”

15.30pm TBA

15.45pm **Cathy Ramsbottom (QUB)**
“Electron-ion collisions in Fe-peak elements”

16.15pm General AMIG discussion (Edward Armour)

16.30pm **Close of meeting**

We hope to see you there!