

Ryan Smyth  
Queen's University Belfast

- 1<sup>st</sup> year PhD student at QUB working within the atomic data research group
- Detailed atomic structure calculations for atoms and ions of interest to nuclear fusion and astrophysics. Including Mo I, W I, Fe II and Fe XVII.
- Carry out large scale electron-impact excitation, electron-impact ionisation and photoionisation calculations using the R-matrix method to generate data for modelling.
- Recent success with Mo I calculations will provide new impurity influx diagnostics for fusion devices

