

Professor Andrew Hillier - James Dungey Lectureship

Professor Andrew Hillier is awarded the James Dungey Lecture for his exceptional ability to explain complex plasma processes in the solar atmosphere in an engaging manner - his natural aptitude for teaching brings the subject to life.

Professor Hillier has made significant research breakthroughs in the field of plasma physics applied to the Sun's atmosphere. From a firm mathematical footing, he has worked on the Kelvin-Helmholtz instability and two-fluid models in partially ionised plasmas.

In particular, he has examined the instability of shear flows in magnetised partially ionised plasmas - a problem of wide interest, as its understanding is crucial for our modelling of the heating and cooling of the solar atmosphere.

Professor Hillier possesses the uncommon ability to capture the fundamental physics at play in complex problems and convey them with outstanding communication skills, enthusiasm, and a clear and direct language.

This, combine with his exceptional science insights, enables his audience to grasp the results in an engaged and straightforward manner.