**\*\*\*\*\*\* Postdoc position available — click [here](http://www.jobs.ac.uk/job/AUT900/research-associate/" \t "_blank) for more information \*\*\*\*\*\***

**Research Interests**

I am interested in the interplay between pure mathematics and the real world. Specifically, I study various mathematical aspects of equations that govern the evolution of plasmas, such as the Vlasov-Maxwell system of equations. Some of the problems I study are related to stability of plasmas and long time behavior. This requires tools from various fields, including:

* Partial differential equations
* Kinetic theory
* Ergodic theory
* Spectral analysis
* Computational complexity

**Further Details**

* I am part of the **[Mathematical Analysis Research Group](https://www.cardiff.ac.uk/research/explore/research-units/mathematical-analysis" \t "_blank)**
* Please see my **[personal website](http://wwwf.imperial.ac.uk/%7Ejbenartz/" \t "_blank)** for further details on my research, publications, teaching, and more.
* My **EPSRC Project Blog: [QUEST@Cardiff](http://cardiffquest.wordpress.com/" \t "_blank)**