

## Val Gibson University Reader

I am a Reader in High Energy Physics in the Cavendish Laboratory, Department of Physics at The University of Cambridge.

I have a DPhil in Experimental Particle Physics from Queens College, Oxford and have worked at CERN as a Physics Fellow and held Fellowships at Cambridge before being appointed as a lecturer.



In my research I study the most fundamental particles of nature and the forces between them. In particular, I am fascinated by what causes the huge imbalance of matter over antimatter in our Universe.

The next great step in our quest to understand this enigma will occur this year (2008) when the Large Hadron Collider at CERN in Geneva starts operation, recreating the conditions at the time of the Big Bang. My experiment (LHCb) is designed to search for new phenomena outside our current understanding using "b-quarks", one of the third generation of quarks, and which are expected to hold the key to this mystery of the Universe.



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