

# PROF BENJAMIN CHRISTOPHER ALLANACH

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*DAMTP, CMS, Wilberforce Rd, University of Cambridge,  
Cambridge CB3 0WA, United Kingdom*

*Tel: +44-(0)1223-766889 Fax: +44-(0)1223-765590*

*E-mail: [b.c.allanach@damtp.cam.ac.uk](mailto:b.c.allanach@damtp.cam.ac.uk)*

*Homepage: <http://users.hepforge.org/~allanach/>*

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## Special Responsibilities and Esteem Indicators

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| 2005-2006 | Theory scientific secretary for CERN Council Strategy Group   |
| 2008      | Awarded Gambrinus Fellowship at Dortmund University of Technology   |
| 2012-date | Principal Investigator on DAMTP HEP STFC grant application  |
| 2011      | Delivered Academic Training Lectures on Supersymmetry at CERN   |
| 2010-2011 | Awarded IPPP Associateship  |
| 2011-2014 | Adjunct Faculty, TIFR (Mumbai, India)   |
| 2009-2010 | Perimeter Scholars International faculty, Perimeter Institute, Canada   |
| 2005-2009 | PPARC/STFC IPPP steering committee  |
| 2012      | BUSSTEPP lecturer on supersymmetry  |
| 2009-date | Expert referee for Netherlands Organisation for Scientific Research (NWO), FONDECYT (Chilean Research Council) and ANCS (Romanian research council) |
| 2007      | International expert grant referee for Agence Nationale de la Recherche, France   |
| 2010-date | Successful STFC Science in Society Small Awards Scheme grant application  |
| 1999-2000 | Three successful grant applications for PPARC Special Program Grants  |
| 2006      | Won visiting researcher grant from PPARC with Prof Sridhar  |
| 2004-date | Referee for PPARC/STFC grant applications (including PPRP)  |
| 2006-date | International advisory committee for Particle Physics and Cosmology Workshop  |
| 1998-date | Journal referee: Phys. Rev. Lett., JHEP, Nature Physics and several others  |
| 1997-date | Chartered Member of the Institute of Physics (awarded C. Phys.)   |

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## Work Experience

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| 2011      | Lectureship hiring committee for Cavendish Laboratory: hired Gripaios   |
| 2012      | Council of the School of Physical Sciences  |
| 2009-date | IT liaison officer for DAMTP and School of Physical Sciences IT committee   |
| 2009-2011 | Examiner, Natural Sciences Tripos IA (mathematics). Senior examiner in 2010-11  |
| 2009-date | Undergraduate lecturing   |
| 2008      | Hiring committee of joint HEP/DAMTP computer officer  |
| 2004-2006 | Chair of mathematics matching panel for University pay review   |
| 2005-2006 | Cavendish laboratory HEP/astrophysics strategy committee  |
| 2005-date | PhD student supervisor. 3 students completed  |
| 2008-date | Maths for Natural Sciences Consultative Committee   |
| 2005-date | External examiner for 9 Ph.D. degrees, internal examiner for 6  |
| 2005-date | Lecturing and examining part III mathematics courses. Physics graduate lectures on Beyond the Standard Model for Cavendish laboratory |
| 2004-2007 | Ran DAMTP/Cavendish phenomenology seminar series  |

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## Outreach

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| 2012      | <i>Frontiers</i> BBC Radio 4 programme interview on supersymmetry   |
| 2012      | Co-hosted CERN dinner, TEDGlobal event, Edinburgh. Higgs interviews for <i>The Guardian</i> , <i>Plus Magazine</i>  |
| 2011      | Wrote <i>Quantum Diaries</i> blogs on SUSY, Higgs /SUSY interviews with <i>The Guardian</i> , <i>Plus Magazine</i> , <i>Nature News</i> , <i>Symmetry Breaking Magazine</i> |
| 2010-date | Principle Investigator for “Science at music festivals” STFC grant  |
| 2008-2009 | Popular talks for MMP, businesses, Dana centre, BBC Focus magazine interview, STFC LHC promotion video, radio interviews, Guerilla Science                                  |
| 2007      | Interview on BBC television programme <i>Cosmos</i> and on Radio 4 on charge and colour breaking minima in SUSY   |
| 2003-2008 | Three interviews on <i>The Naked Scientist</i> BBC radio programme  |
| 2001      | Extensive newspaper and radio coverage of talk at BAAS conference   |
| 2005-date | Organiser of HEP section of DAMTP open day  |

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## Current Research Interests

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### Beyond the Standard Model Collider Physics and Interpretation

Member of Cambridge SUSY Working Group. We are interested in LHC search, measurement and discrimination strategies for Beyond the Standard Model physics.

Global Beyond the Standard Model fits to indirect/collider data. Applying information geometry to new physics searches. Tevatron  $t\bar{t}$  asymmetry explanations.

### Calculation of the Sparticle Spectrum

SOFTSUSY maintenance and upgrades: for example to the NMSSM.

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## Academic Jobs

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| 2010-date | DAMTP, Cambridge              | Professor of Theoretical Physics   |
| 2008-date | Clare Hall College, Cambridge | Director of Studies in Mathematics |
| 2007-2010 | DAMTP, Cambridge              | Reader in Theoretical Physics      |
| 2004-2007 | DAMTP, Cambridge              | University lecturer in mathematics |
| 2004-2009 | DAMTP, Cambridge              | PPARC advanced fellow              |
| 2002-2004 | LAPTH, France                 | Postdoctoral research associate    |
| 2000-2002 | CERN, Switzerland             | Postdoctoral research associate    |
| 1998-2000 | DAMTP, Cambridge              | Postdoctoral research associate    |
| 1995-1998 | PPD, RAL                      | Higher Scientific Officer          |

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## University Education

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| 1992-1995 | University of Southampton | Ph. D. in theoretical particle physics<br>1992: Herman Jahn prize for science        |
| 1989-1992 | University of Sheffield   | B. Sc. Physics (1 <sup>st</sup> class Hons.)<br>Milner Prize for theoretical physics |

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## Personal Details

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| Born:           | April 5 <sup>th</sup> 1971 | Nationality: | British |
| Marital status: | married, no children       | Sex:         | male    |

## References

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Prof. G. Altarelli

Università degli Studi di "Roma Tre"

dipartimento di Fisica

Via Vasca Navale 84 , I-00146 Roma , Italy

email: [guido.altarelli@cern.ch](mailto:guido.altarelli@cern.ch)

tel: +39-065733704

Prof. H.P. Nilles

Physikalisches Institut der Universität Bonn

Nussallee 12

53115 Bonn , Germany

email: [nilles@th.physik.uni-bonn.de](mailto:nilles@th.physik.uni-bonn.de)

tel: +49-228-73-3247