



COMPLIANCE WITH THE DATA PROTECTION ACT 1998

In accordance with the Data Protection Act 1998, the personal data provided on this form will be processed by STFC, and may be held on computerised database and/or manual files. Further details may be found in the **guidance notes**

Ernest Rutherford Fellowships

Peer Review

STFC Reference: ST/K00414X/1

Document Status: With Council

Ernest Rutherford Fellowship 2012

Applicant Details

Applicant	Dr Pat Scott	Organisation	Imperial College London
-----------	--------------	--------------	-------------------------

Title of Research Project

The astroparticle road to new physics

Review Information

Response Due Date	19/11/2012	Reviewer Reference:	1-14IBSI
-------------------	------------	---------------------	----------

Research Council Contact Details

STFC Administration Contact:	Email:	Telephone:
------------------------------	--------	------------

Overall Assessment

Please give your opinion of the candidate in terms of his/her ability and suitability for an STFC Fellowship. Include justification for the scores given above. The information will be available in the feedback given to the applicant.

The applicant is only two years out of his PhD but already has a very strong track record, particularly in the application of statistical methods in astro(particle)-physics. He has an excellent publication record at this career stage.

The research programme proposes to bring together accelerator, direct-detection and astrophysical probes of dark matter and beyond-standard-model physics and perform global parameter fits in a variety of models. This is timely work given recent advances on the data side and could deliver high-impact science. The applicant seems very well placed to perform the statistical aspects of this work, but a concern is to what extent the development of the likelihood modules can be done without closer links to the experiments: will these have to be written by collaborators on the relevant projects who have detailed knowledge of the data processing and systematic effects? The proposal is well written and the goals clearly identified. The choice of host institution is well justified and it appears likely that a permanent position at Imperial will follow the Fellowship.