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Ernest Rutherford Fellowships STFC Reference: ST/K00414X/1

# Peer Review

Document Status: With Council

## Ernest Rutherford Fellowship 2012

### Applicant Details

Applicant	Dr Pat Scott	Organisation	Imperial College London
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### Title of Research Project

The astroparticle road to new physics
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### Review Information

Response Due Date	19/11/2012	Reviewer Reference:	1-15B2SU
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### Research Council Contact Details

STFC Administration Contact:	Email:	Telephone:
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### 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.*

This is a very strong application from a very strong applicant.

The main focus of Scott's work is particle dark matter and BSM particle phenomenology. He has also done significant research on stellar/solar evolution. His proposal is extremely timely, using upcoming data sets to probe models of BSM physics and the nature of dark matter. Many groups do similar work, however the novel feature of Scott's (past and proposed) work is close collaboration with experimentalists in order to make full use of the data, and include all relevant uncertainties. I would like to have seen at least at brief mention of a 'back up' plan. What will the applicant do if no signs of BSM physics appear over the next few years? (the half page of the research proposal largely devoted to repeating material from the CV could have been used to cover this).

The applicant is clearly extremely ambitious and has built up a strong CV given his (current) 2 years of postdoctoral experience.