

The **I**nstitute for **P**article **P**hysics **P**henomenology

PPARC initiative in **1999** to
“drive the UK effort to new levels of excellence”



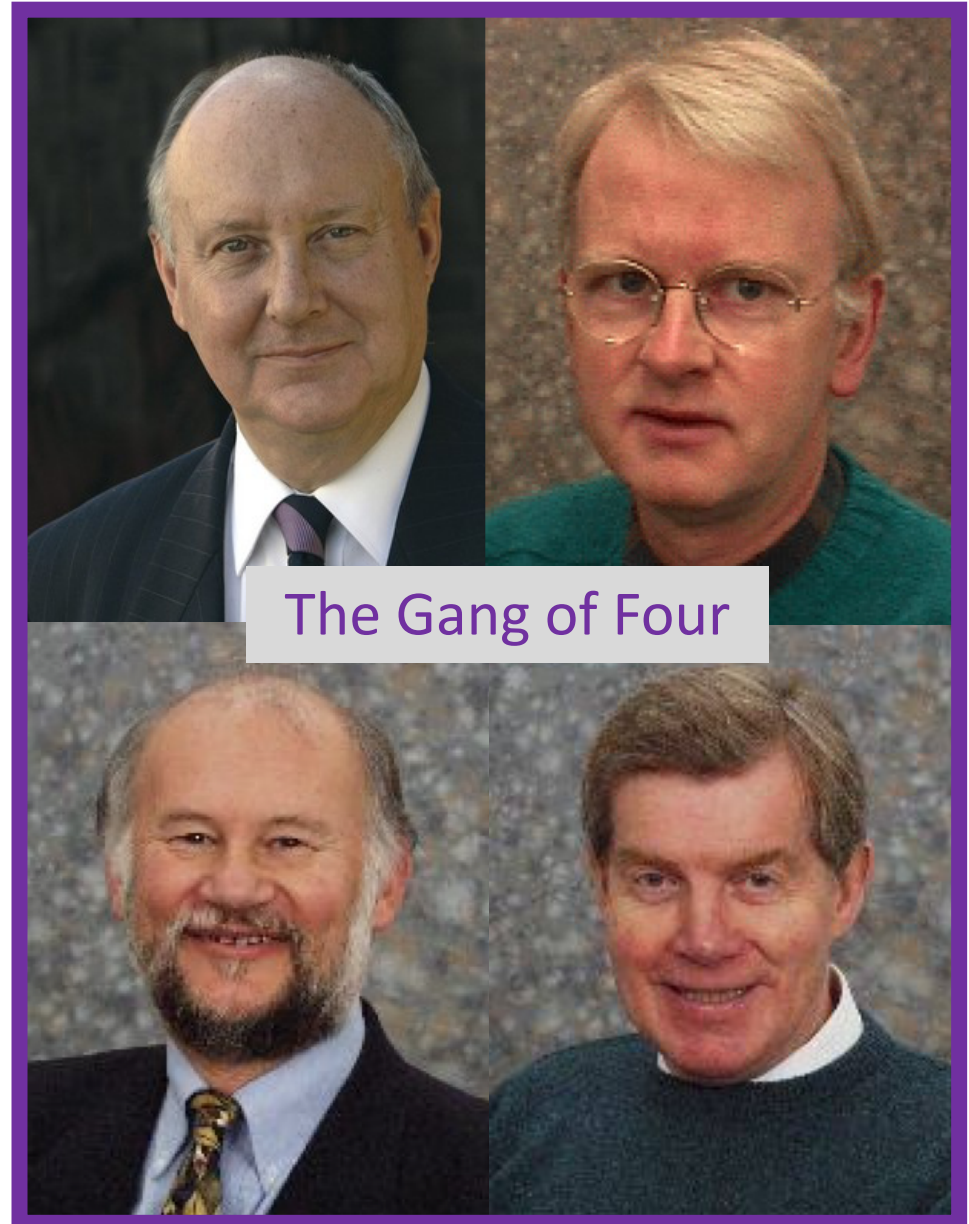
The aim

- world-class research in phenomenology
- provide a forum for interaction between UK pp experimentalists and theorists
- train young phenomenologists and inform the public

The beginning of IPPP



Phenomenology Group summer 2000



The Gang of Four

James Stirling Memorial Conference

IPPP workshops



Matrix Elements and Parton Showers
St Johns College
December 2000



IPPP – the early years

Oct 2000 ~26 people
Jan 2003 ~41 people

2003

← first PPARC review

← official opening

2002

← move to Ogden Building

← first new IPPP postdoc

2001

← first new academic staff

2000

← start of IPPP

← announcement of PPARC grant





THE HIGGS BOSON



1964

Peter Higgs suggested introducing a new field (the Higgs Boson) in order to explain the origin of the mass of elementary particles. This is the most widely accepted scenario.



A famous particle acquires a mass through interactions with the Higgs field.

A rumour at a party...

The Higgs boson is the only missing ingredient of the Standard Model.

2008

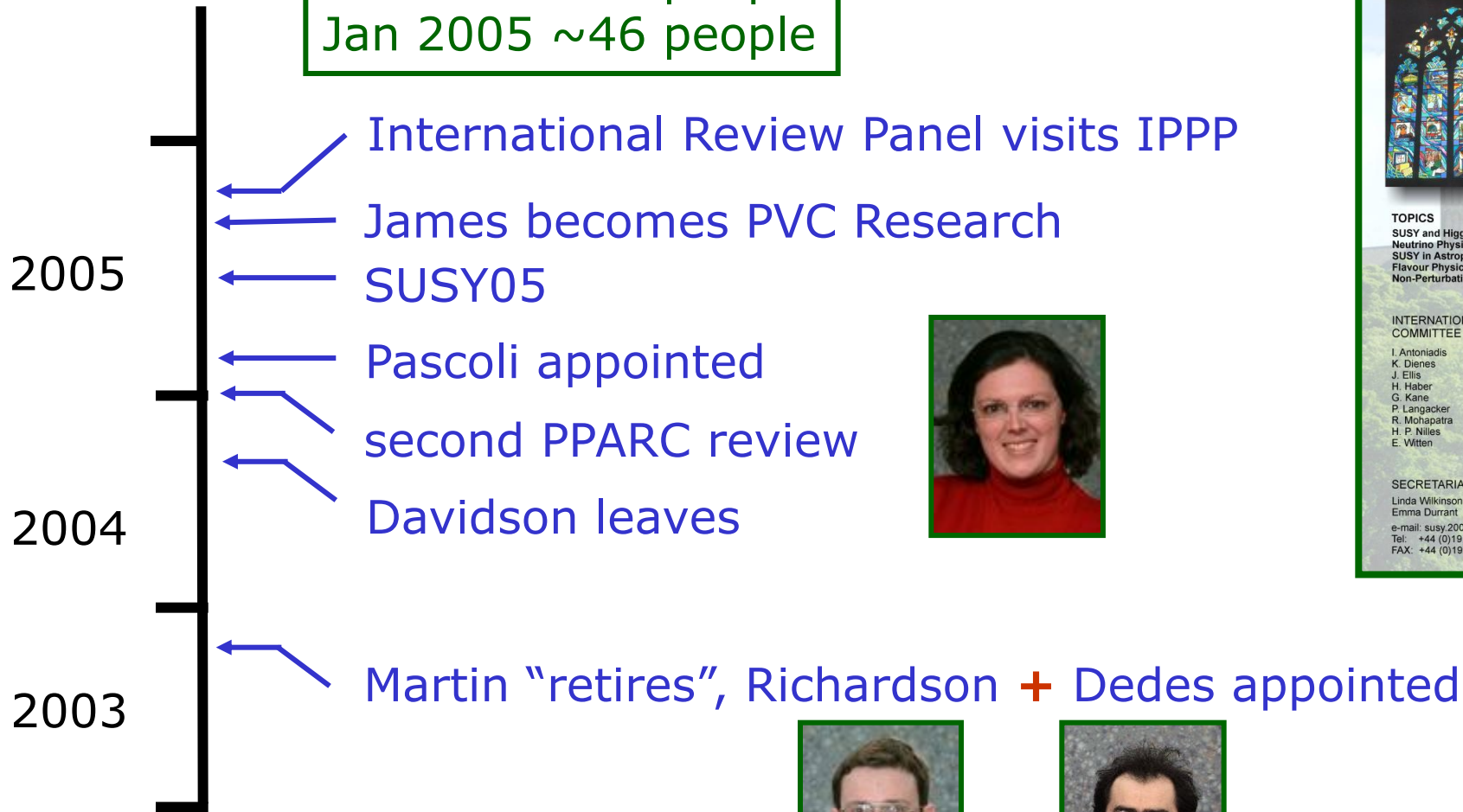
This scenario is expected to be confirmed by the Higgs boson discovery at the LHC.



Ogden Centre for Fundamental Physics

IPPP – consolidation

Jan 2003 ~41 people
Jan 2005 ~46 people



SUSY 2005
The Millennium Window to Particle Physics

The 13th International Conference on Supersymmetry and Unification of Fundamental Interactions

18-23 July 2005
at the
Institute for Particle Physics Phenomenology, Durham, UK

TOPICS
SUSY and Higgs Searches
Neutrino Physics, Unification, Superstrings
SUSY in Astrophysics and Cosmology
Flavour Physics and CP violation
Non-Perturbative Aspects and Alternatives

INTERNATIONAL ADVISORY COMMITTEE	ORGANIZING COMMITTEE
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IPPP - impact

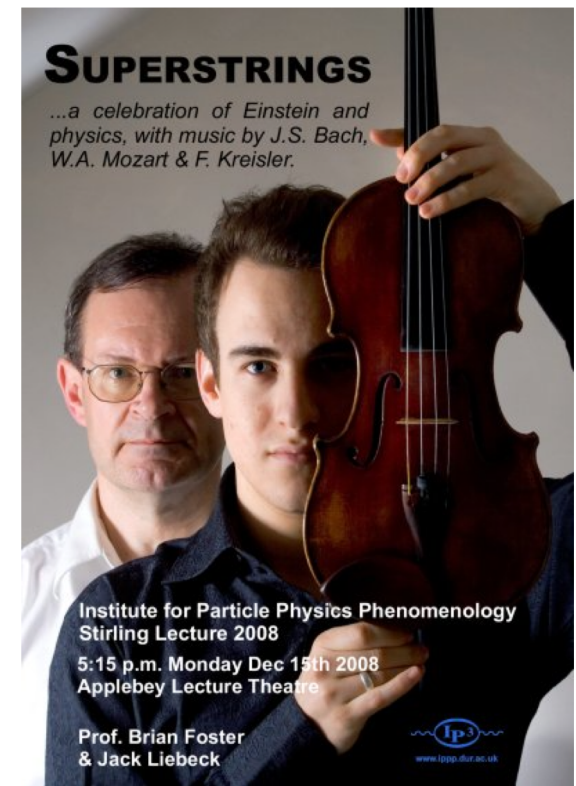
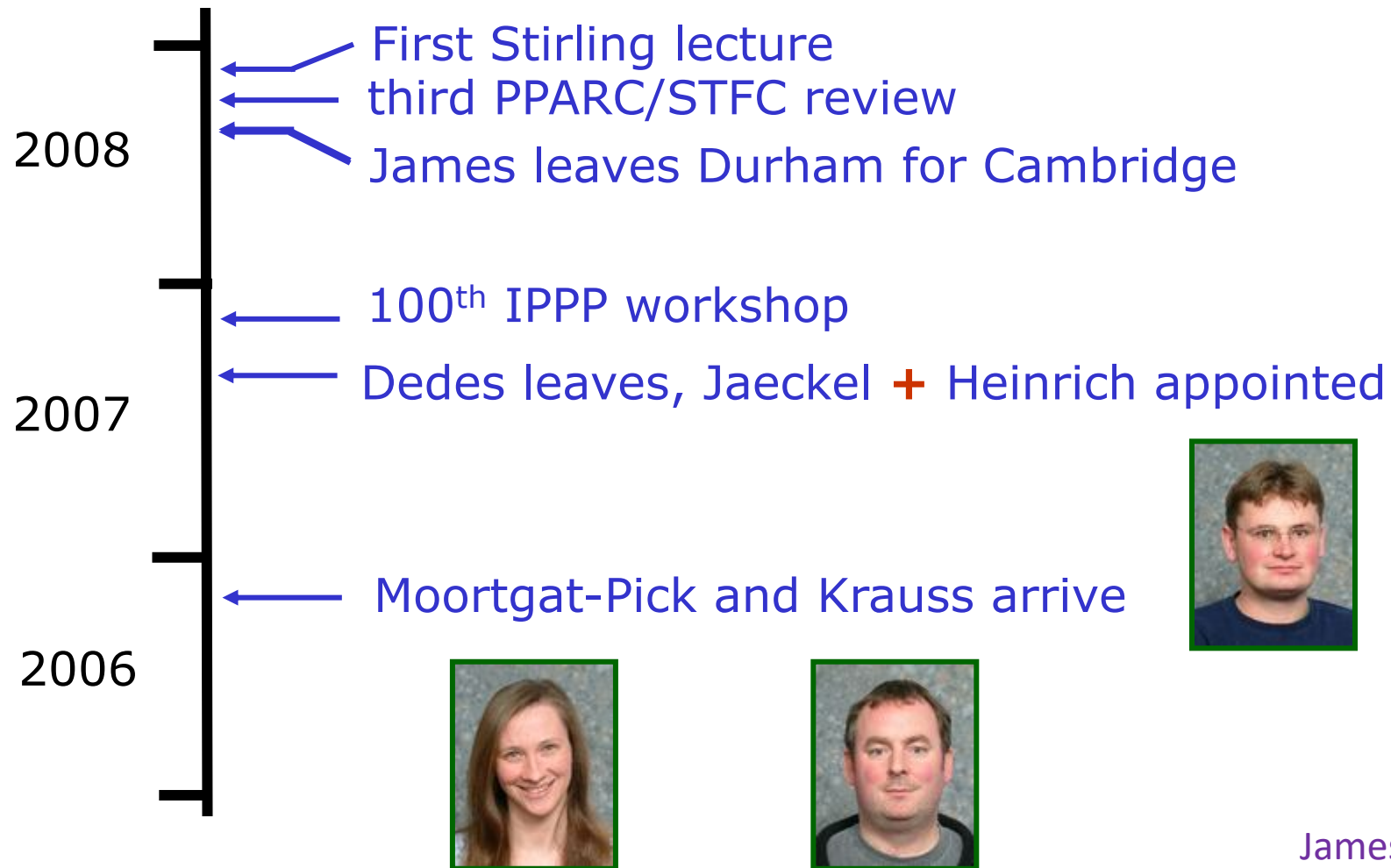
With the founding of the IPPP, a joint venture of the University of Durham and PPARC, particle physics phenomenology in the UK has been substantially revived.

The IPPP has had major successes: creating a critical mass of particle theorists in Durham [...] reviving particle phenomenology throughout the UK, and the organisation of many meetings and workshops.

This development is very important, since it is essential that UK experimentalists and theorists be ready to exploit discoveries made at the LHC

IPPP – steady growth

Jan 2005 ~46 people
Sep 2008 ~58 people



IPPP in September 2008



- 14 academic staff
- 14 research staff
- 2 visiting researchers
- 27 research students
- 5 support staff
- 1 outreach manager

IPPP hikes



IPPP Ceilidh



50th Birthday



James Stirling

James was a great scientist and he left his imprint in many places. We were lucky to have him in Durham and he established the IPPP as one of the leading institutes for particle physics.

His legacy runs deeply because of the immense human impact he had on the people he worked with. He genuinely cared about them and their problems, large or small.

We all sorely miss his brilliant insights, his gentle encouragement and his collegial and supportive fellowship.