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Search for New Physics in Charm at LHCb

Fact Sheet

Project Information

CHARM@LHCb

Grant agreement ID: 329017

Project closed

Start date

1 April 2013

End date

31 March 2015

Funded under

Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)

Total cost

€ 221 606,40

EU contribution

€ 221 606,40

Coordinated by

THE CHANCELLOR, MASTERS
AND SCHOLARS OF THE
UNIVERSITY OF OXFORD
 United Kingdom

Objective

The unique capabilities of the LHCb experiment at CERN will be used to collect enormous samples of charm meson multibody decays, and then study these decays for evidence of indirect CP-violation. Any discovery would be highly suggestive of physics contributions from beyond the Standard Model. The analysis methods proposed are novel and are largely independent of model-based assumptions about

the resonance substructure of the charm decay, hence providing robustness to the results. The proposal also features plans to improve the trigger system of LHCb to improve still further the performance in charm physics during future data taking

Fields of science (EuroSciVoc)

[natural sciences](#) > [physical sciences](#) > [theoretical physics](#) > **[particle physics](#)**



Programme(s)

[FP7-PEOPLE - Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities \(2007 to 2013\)](#).

Topic(s)

[FP7-PEOPLE-2012-IEF - Marie-Curie Action: "Intra-European fellowships for career development"](#)

Call for proposal

FP7-PEOPLE-2012-IEF
[See other projects for this call](#)

Funding Scheme

[MC-IEF - Intra-European Fellowships \(IEF\)](#).

Coordinator



THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF
OXFORD

EU contribution

€ 221 606,40

Total cost

No data

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 **United Kingdom** 

Region

South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Oxfordshire

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Last update: 31 March 2016

Permalink: <https://cordis.europa.eu/project/id/329017>

European Union, 2025