



COST Action MP1405
Materials, Physical and Nanosciences

COST Grant System
25 January 2018

Action MP1405 Fact Sheet

Title

Quantum structure of spacetime (QSPACE)

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Details

Draft Mou: oc-2014-1-17888	Mou: 112/14
Start of Action: 30/04/2015	Entry into force: 02/12/2014
End of Action: 29/04/2019	CSO approval date: 13/11/2014

Objectives

Noncommutative geometry (NCG) is at the heart of quantum physics, and its many facets and developments have widely influenced both physics and mathematics. In particular, NCG is related to a quantum theory of gravity and a possibly unified perspective on the fundamental forces of Nature. This Action aims to create a Network with world experts from across Europe in the interconnected research subjects of NCG and gravity. As data emerges from Cosmic Microwave Background and quantum interferometry experiments, a prime objective of the Action will be to seek measurable signatures of quantum spacetime. It will achieve a wider and deeper understanding of theory/experiment connections to produce world-leading advances in quantum geometry, and applications to String Theory, Quantum Field Theory, Particle Physics, and Cosmology. This will be achieved through collaborations and scientific activities, which will in particular ensure fair gender representation and foster participation of early stage researchers. The Action will impact on science and society at large through the revolutionary understanding of fundamentals of space and time that it achieves, and through the organisation of a digital repository for NCG related resources.

Parties

Country	Date	Country	Date	Country	Date	Country	Date
Austria	02/12/2014	Belgium	22/01/2015	Bulgaria	08/12/2014	Croatia	12/12/2014
Cyprus	26/03/2015	Czech Republic	06/02/2015	Denmark	05/12/2014	France	17/12/2014



Germany	01/12/2014
Ireland	12/12/2014
Netherlands	30/03/2015
Slovakia	24/04/2015
Switzerland	15/01/2015

Greece	16/12/2014
Italy	30/01/2015
Poland	30/12/2014
Slovenia	09/11/2015
Turkey	10/08/2015

Hungary	29/04/2015
Luxembourg	27/11/2014
Portugal	04/02/2015
Spain	24/11/2014
United Kingdom	18/11/2014

Iceland	08/12/2014
Malta	16/05/2015
Serbia	20/12/2014
Sweden	03/06/2015
fYR Macedonia	02/08/2016

Total: 28

Intentions to accept the MoU

Country	Date	Country	Date	Country	Date	Country	Date
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Total: 0

Working Groups

None

Website

<http://www.qspace-cost.eu>

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