

16th MCnet meeting

Wednesday 27 September 2017 - Friday 29 September 2017

KIT Physics Highrise (30.23)



Book of Abstracts

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The new Hepforge

Corresponding Author(s): johannes.bellm@durham.ac.uk

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From Jet Topology Towards Jet Tagging

Corresponding Author(s): radek.podskubka@kit.edu

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Some Dipole Shower Studies for Pythia 8

Corresponding Author(s): baptiste.cabouat@gmail.com

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Subleading colour corrections in Herwig

Corresponding Author(s): johan.thoren@thep.lu.se

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(Re)Interpretation of LHC results

Corresponding Author(s): david.yallup.15@ucl.ac.uk

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Simulation of quark/gluon jets

Corresponding Author(s): andrzej.siodmok@cern.ch

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Soft physics

Corresponding Author(s): patrick.kirchgaesser@kit.edu

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Developing a BLHA interface for VBFNLO

Corresponding Author(s):

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Calculating the Casimir force using the boundary element method

Mr. UTHEIM, Marius¹

¹ *Lund University*

Corresponding Author(s): marius_utheim@hotmail.com

I will give a brief introduction to the Casimir effect and present a new method for calculating the Casimir force from the scalar field on compact objects. The Casimir pressure is expressed in terms of an integral equation defined on the boundaries on the objects. A crucial part of the calculation is the renormalization procedure used. The method was first developed by Isak Kilen in his master thesis in 2012 together with his supervisor Per Jakobsen, and extended by Karl Øyvind Mikalsen in 2014 and by Marius Utheim in 2016.