THE **FIELDS** INSTITUTE

ENVELOPING ALGEBRAS AND REPRESENTATION THEORY

TO BE HELD AT MEMORIAL UNIVERSITY OF NEWFOUNDLAND ST JOHN'S, NEWFOUNDLAND AND LABRADOR

• AUGUST 28-SEPTEMBER 1, 2014 •

Universal enveloping algebras of Lie algebras appeared more than a century ago as one of the major tools in Lie Theory. They find many applications in Differential Geometry and Mathematical Physics, and are indispensable to many directions of research in representation theory of Lie groups and algebras. With the increasing interest in infinite-dimensional representations, the role of enveloping algebras becomes even more significant.

The aim of this workshop is to discuss the current state of research in the area of Enveloping Algebras and their applications, primarily in Representation Theory. Several prominent mathematicians have been invited to give lectures illuminating the main achievements in these areas, and to outline the prospects of further research. There will be a number of longer research talks as well as some shorter research communications, in particular by graduate students and postdoctoral fellows.

CONFIRMED SPEAKERS

Alberto Elduque (Univeristy of Zaragoza)

Vyacheslav Futorny (University of Sao Paulo)

Victor Kac (Massachusetts Institute of Technology)

Antony Joseph (Weizmann Institute)

Vladimir Mazorchuk (University of Uppsala)

Erhard Neher (University of Ottawa)

José María Pérez Izquierdo (University of La Rioja)

Alexander Premet (University of Manchester)

Ivan Shestakov (Unversity of Sao Paulo)

Sudarshan Sehgal (University of Alberta)

Vladislav Kharchenko (Universidad Nacional Autónoma de México)

For more information, please visit:

www.fields.utoronto.ca/programs/scientific/14-15/enveloping/