

## CONFERENCE ON

# Geometry, Representation Theory and the Baum-Connes Conjecture

**JULY 18 - 22, 2016**

In celebration of the 80th birthday of Paul F. Baum, whose remarkable contributions to topology, functional analysis and noncommutative geometry can hardly be overestimated, we will hold a conference focused on the Baum-Connes conjecture, K-homology, large-scale geometry, representation theory, and spectral theory in noncommutative geometry. All of these develop index theory and thus are based on an interaction between analysis and topology-geometry. Some of these topics arose from classical problems in global analysis, index theory and topology and continue to have application there.

### ORGANIZING COMMITTEE

Alan Carey (Canberra)  
George Elliott (Toronto)  
Piotr M. Hajac (Warsaw)  
Ryszard Nest (Copenhagen)

### SPEAKERS

James Arthur (Toronto), Anne-Marie Aubert (Paris), Paul F. Baum (Penn State), Jonathan Block (U Penn), Ludwik Dąbrowski (SISSA Trieste), Kenny De Commer (Vrije Universiteit Brussel), Ronald Douglas (Texas A&M), Siegfried Echterhoff (Münster), Heath Emerson (U Victoria), Alexander Gorokhovskiy (Boulder), Erik Guentner (Manoa), Nigel Higson (Penn State), Pierre Julg (Orléans), Masoud Khalkhali (Western), Max Karoubi (Paris), Toshiyuki Kobayashi (Tokyo), Hitoshi Moriyoshi (Nagoya), Henri Moscovici (Ohio State), Roger Plymen (Manchester), Marc A. Rieffel (Berkeley), Jonathan Rosenberg (U Maryland), Thomas Schick (Göttingen), Peter Schneider (Münster), Maarten Solleveld (Nijmegen), Erik van Erp (Dartmouth College), David Vogan (MIT), Christian Voigt (Glasgow), Nanhua Xi (Chinese Academy of Sciences), Guoliang Yu (Texas A&M)



“From 8 to 80”  
Artwork by Lucyna A. Hajac

**For more information and to register, please visit:**  
[www.fields.utoronto.ca/activities/16-17/Baum-Connes](http://www.fields.utoronto.ca/activities/16-17/Baum-Connes)



Quantum Dynamics Network



HORIZON 2020

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