

Pacific Institute *for the*  
Mathematical Sciences

# Recent Advances in Hodge Theory: Period Domains, Algebraic Cycles, and Arithmetic

10-20 June, 2013

University of British Columbia, Vancouver

A four-day summer school for graduate students and postdocs, followed by a six-day research conference on the asymptotics, symmetries, and arithmetic of periods, as well as related representation theory and geometry.

SUMMER SCHOOL DATES: JUNE 10-13, 2013

CONFERENCE DATES: JUNE 14 - 20, 2013

## CONFIRMED SPEAKERS INCLUDE:

D. Arapura, P. Brosnan, H. Carayol, J. Carlson, H. Gangl, W. Goldring,  
M. Green, P. Griffiths, R. Hain, L. Katzarkov, B. Klingler, R. Laza,  
B. Moonen, C. Robles, M. Saito, W. Schmid, C. Schnell,  
T. Terasoma, B. Totaro, S. Usui, V. Vologodsky, J. Walcher,  
H. Yoshida and S. Zucker.

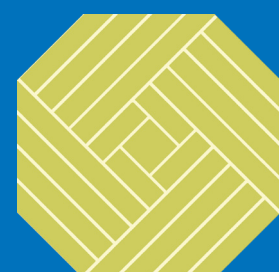
## FOCUS THEMES:

- 1) Algebraic cycles and the Hodge Conjecture
- 2) Arithmetic aspects of cycles and period maps
- 3) Period domains and their compactifications
- 4) Mumford-Tate groups and representation theory
- 5) Automorphic forms and automorphic cohomology
- 6) Relative Completion of  $\pi_1$

## ORGANIZERS:

James D. Lewis (University of Alberta), Matt Kerr (Washington University), Gregory Pearlstein (Michigan State University)

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