THE FIELDS INSTITUTE

Focus Program on Topology, Stratified Spaces and Particle Physics

August 8 - 26, 2016 • The Fields Institute

The program will focus on recent advances in stratified spaces and emerging ties to mathematical physics. Topics include intersection cohomology, intersection spaces and their applications, characteristic classes, singularity theory and global analytical methods.

The program will be research-oriented, intended to disseminate recent developments. But it will also have a significant educational component, including a Summer School to introduce graduate and advanced undergraduate students to the area. The program will be a great opportunity for young researchers, postdocs and graduate students to broaden their perspective, and to create new research ties with each other and with more senior colleagues.

Summer School
August 8 - 12, 2016

Intersection Spaces and Applications in Topology, Geometry and Physics
Markus Banagl (Heidelberg)

Introduction to Intersection Homology
Greg Friedman (TCU)

L^2 Cohomology
Eugenie Hunsicker (Loughborough)

Characteristic Classes of Stratified Spaces
Laurentiu Maxim (Wisconsin, Madison)
Jörg Schürmann (Münster)

Singular Spaces in String and M-theory
Timo Weigand (Heidelberg)

Workshops

Workshop on Singular Spaces in String and M-theory
August 15 - 19, 2016

Workshop on Stratified Spaces: Perspectives from Analysis, Geometry and Topology
August 22 - 26, 2016

Organzing Committee

Markus Banagl (Heidelberg)
Edward Bierstone (Toronto)
Sylvain Cappell (NYU)
Laurentiu Maxim (Wisconsin-Madison)
Timo Weigand (Heidelberg)

For more information, please visit:
www.fields.utoronto.ca/activities/16-17/stratifiedspaces

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