Euler Integration and Applications

Presented by

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Abstract: Euler characteristic is much more than a number associated with polyhedra– it is a topological invariant that we can extend to an integration theory. I will give an introduction to integration with respect to Euler characteristic. This integration theory has intriguing applications to topological enumeration problems, especially in the context of sensor networks. I will also touch on some current research.

Bio: Matthew Wright is a Postdoctoral Fellow at the Institute for Mathematics and its Applications (IMA), at the University of Minnesota. He earned a Ph.D. in mathematics from the University of Pennsylvania and then taught for two years at Huntington University in Indiana before joining the IMA. When not doing math, he enjoys juggling, reading, and strategy games.

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