PIMS DISTINGUISHED LECTURE SERIES

Research and Innovation Centre (RIC) 209 & Zoom | 3.30pm CST

October 20
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TOPOLOGY AND AZUMAYA ALGEBRAS

Abstract

An Azumaya algebra is something that is “locally” isomorphic to a matrix algebra. By varying the sense of “locally”, we arrive at different incarnations of the concept. The motivating example is that of central simple algebras over a field. In this talk, I will concentrate on the topological aspects of the idea. I will give examples and show that the flexibility of topology allows one to produce counterexamples in algebra. At the end, I will mention some problems I do not know how to solve.

For more information and session details, visit
https://www.pims.math.ca/scientific-event/231020-updlbw