

1154-35-1346

Benjamin Blake McMillan* (mcmillanbb@gmail.com). *Conservation laws and parabolic Monge-Ampere equations.*

In this talk, I will describe how the geometry of an arbitrary parabolic second order equation governs the existence of its conservation laws, and conversely, how the existence of even a single conservation law puts strong geometric restrictions on a parabolic equation. In particular, I will describe the strong connection between conservation laws and parabolic Monge-Ampere equations. (Received September 15, 2019)