

SOME INEQUALITIES ON RICCI SOLITONS AND RIGIDITY

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Time: Wed, Jun 2, 9:00-9:30

Venue: Room 102, SCMS

Abstract: In this talk, we give rigidity theorems for shrinking gradient Ricci solitons supporting the Heisenberg-Pauli-Weyl uncertainty principle with the sharp constant in Euclidean space. In addition, we partially give analogous rigidity results of the Caffarelli-Kohn-Nirenberg inequalities on shrinking Ricci solitons.

Then we give some partial result on complete shrinking gradient Ricci solitons with constant scalar curvatrue.