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Academy of Mathematics and Systems Science, CAS
Colloquia & Seminars

Speaker:	张若冰博士,Princeton University
Inviter:	
Title:	Metric geometric aspects of Einstein manifolds
Language:	Chinese
Time & Venue:	2023.11.24 09:00-10:00 南楼N933 Zoom会议：332 983 6068 密码：mcm1234
Abstract:	

This lecture concerns the metric Riemannian geometry of Einstein manifolds, which is a central theme in modern differential geometry and is deeply connected to a large variety of fundamental problems in algebraic geometry, geometric topology, analysis of nonlinear PDEs, and mathematical physics. We will exhibit the rich geometric/topological structures of Einstein manifolds and specifically focus on the structure theory of moduli spaces of Einstein metrics.

My recent works center around the intriguing problems regarding the compactification of the moduli space of Einstein metrics, which tells us how Einstein manifolds can degenerate. Such problems constitute the most challenging part in the metric geometry of Einstein manifolds. We will introduce recent major progress and propose several open questions in the field.

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