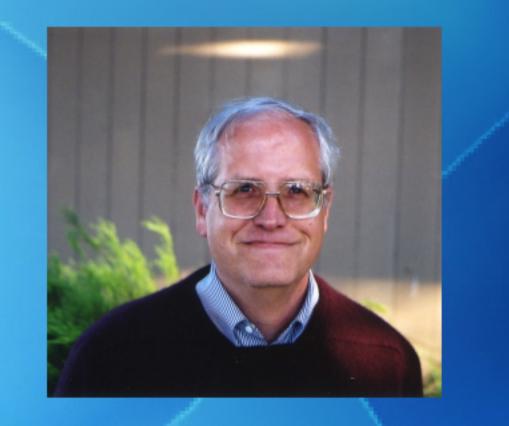
2013年竺可桢杰出学者系列讲座(17期)

报告人: Lawrence C. Evans Department of Mathematics University of California, Berkeley

题目: HIDDEN CONVEX STRUCTURES IN NONLINEAR PROBLEMS



摘要: In this expository talk aimed at a general scientific audience, I

will first discuss why so many mathematical tools are available for linear problems and so few for nonlinear problems.

I will then explain that convex problems have a kind of geometric "one-sided linear" property that makes them tractable.

Consequently the best nonlinear problems are convex, but interestingly this convex structure sometimes may not be apparent. I will illustrate this by presenting a sequence of interesting examples that seem impossibly nonlinear, but are in fact solvable owing to "hidden convex structures".

时间: 12月2日(周一)14:00-15:00 地点: 数学中心五楼会议室