

2013年竺可桢杰出学者系列讲座（17期）

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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