数学与系统科学研究院

计算数学所系列学术报告

报告人：Prof. Thorsten Koch

（ *Zuse Institute Berlin, Germany* ）

报告主题：

Computational Mixed Integer Programming

报告时间：

2011 年 **11** 月 **14** 日（周一）**09:00-12:00 lecture1**

2011 年 **11** 月 **14** 日（周一）**14:00-17:00 lecture2**

（建议携带笔记本电脑）

2011 年 **11** 月 **15** 日（周二）**10:00-12:00 lecture3**

报告地点：　科技综合楼三层 311

计算数学所报告厅

邀请人：　　刘歆博士

报告题目：

lecture1.1 -> State of the Art in Mixed Integer Programming

lecture1.2 -> The ZIB Optimization Suite

lecture1.3 -> Introduction to Zimpl and SCIP

lecture2.1 -> Modeling with Zimpl and SCIP (COatWork)

lecture2.2 -> Modeling with Zimpl and SCIP (COatWork)

lecture2.3 -> Modeling with Zimpl and SCIP (COatWork)

lecture3.1 -> Notes about Scientific Programming

lecture3.2 -> Introduction to Programming with SCIP

报告摘要：

How do you solve a combinatorial optimization problem? This lecture offers a guide to the use and the implementation of modern computer oriented solution methods of integer programming. Choosing a suitable model, preprocessing, deriving lower and upper bounds by relaxations, and heuristics as well as the separation and application and of cutting planes in branch-and-cut methods are discussed. The application of these techniques is trained in the exercise part using advanced software tools such as Zimpl and SCIP.

欢迎大家参加！