

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Shawn Xianfu Wang**

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报告题目:

**On the Infimum Values and  
Minimizers of Proximal Averages for  
Convex Functions**

邀请人: **戴彧虹研究员**

报告时间: **2010年7月28日(周三)**

**下午 16:30~17:30**

报告地点: **晨兴数学中心**

**一层 110 报告厅**

## **Abstract:**

**The proximal average of a collection of convex functions is a convex function with many nice analytical properties. In this paper, we study the optimal values and minimizers of proximal averages. While the optimal value function is concave, the optimal mapping is convex valued and upper semicontinuous when every convex function in the collection is level bounded. When every convex function in the collection has a sharp minimizer, under appropriate condition the proximal average also has a sharp minimizer which is a convex combination of given sharp minimizers. Several examples are given to illustrate our results. This is a joint work with R. Goebel and W. Hare.**

**欢迎大家参加!**