

# 学术报告

题目: The numerical inversion of the Laplace transform with applications to evolution problems.

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时间: 2008.6.2 (Mon.) , 10:00 A.M.—11:00 A.M.

地点: 思源楼 703.

**Abstract:** "Laplace transforms which admit a holomorphic extension to some sector strictly containing the right half plane and exhibiting there a potential behavior are considered (sectorial Laplace transforms). A spectral order, parallelizable method for their numerical inversion is proposed. The method takes into account the available information about the errors arising in the evaluations. The application of the Laplace transform and the proposed inversion algorithm to integrate in time evolution equations is considered and several numerical illustrations are provided."