



复旦大学数学科学学院 数学综合报告会

报告题目: Isospectral flows related to Frobenius-Stickelberger-Thiele polynomials

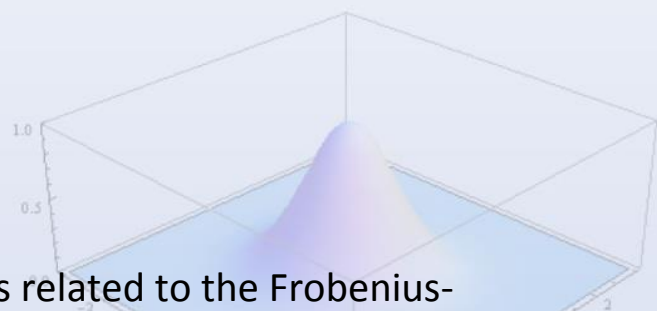
报告人: 常向科 (中国科学院数学与系统科学研究院)

时间: 2021-01-11 星期一 13:30--14:30

地点: 腾讯会议 ID: 875 673 248

报告摘要:

We introduce two isospectral deformations related to the Frobenius-Stickelberger-Thiele (FST) polynomials. On one hand, for a specific choice of the deformation of the spectral measure, one is led to an integrable lattice (FST lattice), which is indeed an isospectral flow connected with a generalized eigenvalue problem. On the other hand, the spectral problem pertaining to the modified Camassa-Holm (mCH) peakon lattice can be interpreted in terms of the FST polynomials together with the associated FST polynomials, resulting in a map from the mCH peakon lattice to a negative flow of the finite FST lattice.



非线性数学模型与方法教育部重点实验室
中法应用数学国际联合实验室
上海市现代应用数学重点实验室
复旦大学数学研究所