

数学与系统科学研究院

计算数学所学术报告

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报告题目:

**The proper interpolation space for
multivariate Birkhoff interpolation**

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Abstract:

Multivariate Birkhoff interpolation problem has many important applications, such as in finite element method. In this paper two algorithms are given to compute the basis of the minimal interpolation space and the lower interpolation space respectively for an arbitrary given node set and the corresponding interpolation conditions on each node. We can get the monomial basis, Newton-type basis as well as Lagrange-type basis. The interpolation polynomial can be derived from the basis directly.

欢迎大家参加!