



SEMINARIO DE ANÁLISIS NUMÉRICO Y MODELACIÓN MATEMÁTICA.

Departamento de Matemática, UBB
Centro de Investigación en Ingeniería Matemática (CI²MA), UDEC

Expositor:

Lucas Bonifacius

Technische Universität München (TUM)

Título de la Charla:

Fast calculation of Legendre-coefficients

Fecha y Hora:

Martes 14 de Agosto de 2012, 16:00 Horas.

Lugar:

Sala Seminario, Facultad de Ciencias, Universidad del Bío-Bío.

Resumen

Recently two $O(N \log N)$ algorithms for the computation of the first N Legendre coefficients have been published. Thus, Legendre-Polynomials have caught up with approximation of Chebyshev-Polynomials using the FFT in terms of suitability for the approximation of functions. The presentation focuses on the approach of Iserles, which is quite brilliant and simple. It will be shown how it works as well as some Matlab examples.

Informaciones: royarzua@ubiobio.cl y dmora@ubiobio.cl