



JACOBS
UNIVERSITY

Mathematics Colloquium at Jacobs University Bremen

CARL DE BOOR

(University of Wisconsin-Madison)

will speak on

Topics in Multivariate Polynomial Interpolation

Date: Monday, October 1, 2007

Time: 17:15

Place: Lecture Hall Research II, Jacobs University

Abstract:

The talk will give a quick overview of some basic questions of current interest in multivariate polynomial interpolation. I will start with what I consider the basic problem, namely the choice of an interpolating space for a given set of data sites, spend some time explaining the details of the least choice, point out its one failing (failure to be continuous) and quickly discuss alternatives.

Other issues to be touched upon are error formulas, and limits of Lagrange projectors.

Finally, I will talk about what most people think is the basic issue namely the choice of data sites for a given interpolating space, say a bit about GC_k sets and the GM conjecture and finish on a pleasant note, the Padua points.

For more information on Carl de Boor who is working in Approximation Theory (especially on splines) and Numerical Analysis, and was awarded the National Medal for Science in the US in 2003, see

http://en.wikipedia.org/wiki/Carl_R._de_Boor

Colloquium Tea at ca. 16:45 in the Tea Room of Research II, close to the lecture hall. Everybody is welcome!

M. STOLL