ICCAM 2006

International Congress

on Computational

and Applied Mathematics

July 10 – July 14, 2006

Katholieke Universiteit Leuven
Belgium

Programme

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Abstracts of Talks

On the remainder term of Gauss–Radau quadratures for analytic functions

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For analytic functions the remainder term of Gauss–Radau quadrature formulae can be represented as a contour integral with a complex kernel. We study the kernel on elliptic contours with foci at the points ± 1 and a sum of semi-axes $\varrho > 1$ for the Chebyshev weight functions. Starting from explicit expressions of the corresponding kernels the location of their maximum modulus on ellipses is determined. Some conjectures from the paper: W. GAUTSCHI, *On the remainder term for analytic functions of Gauss-Lobatto and Gauss-Radau quadratures*, Rocky Mountain J. Math. **21** (1991), 209–226 are proved.