language such as FORTRAN. The first method uses the symbolic manipulation language Maple to evaluate either the Taylor series expansion or an asymptotic expansion of each function. The second method extends an idea of J. C. P. Miller to the complex plane. It uses the first method to obtain a grid of points in the complex plane where the functions are known to high precision and then uses Taylor series from these base points. The resulting algorithm is accurate and efficient.

NOTES TO APPEAR

SEMI-IMPLICIT PARTICLE SIMULATION OF KINETIC PLASMA PHENOMENA. Bruce I. Cohen and Timothy J. Williams, *Lawrence Livermore National Laboratory, University of California, Livermore, California 94550, U.S.A.*

ABOUT THE TIME EVOLVING VORONOI TESSELLATION. L. Zaninetti, *Instituto di Fisica Generale, Via Pietro Giuria 1, 10125 Torino, ITALY.*

THE FAST ADAPTIVE VORTEX METHOD. Thomas F. Buttke, *Courant Institute of Mathematical Sciences, New York University, 251 Mercer Street, New York, New York 10012, U.S.A.*