



CATHLEEN S. MORAWETZ

COURANT INSTITUTE
OF MATHEMATICAL SCIENCE

will deliver the

CHARLES R. DEPRIMA MEMORIAL
UNDERGRADUATE MATHEMATICS LECTURE

Quadratic Inequalities and their magical help

Tuesday, January 14, 1997, 4:15 p.m.
151 Sloan
California Institute of Technology

CATHLEEN S. MORAWETZ

Cathleen S. Morawetz earned a B.S. and an S.M. from MIT in 1945 and 1946 respectively. In 1951 she received her Ph.D. from New York University, her thesis being directed by K.O. Fredericks. Morawetz held the title of research scientist, first at MIT from 1950-1951, then at NYU from 1951-1958. Since 1958 she has been a regular member of the NYU/Courant faculty, rising from the rank of assistant professor to full professor.

Over the last 40 years Morawetz has made many important mathematical contributions that were motivated by their scientific applications. For example, her striking results on boundary value theorems for partial differential equations in the 1950's led to predictions in aerodynamics which were subsequently experimentally confirmed. During the 1960's and 1970's she and her collaborators developed deep new analytic techniques to study the scattering of sound or electrodynamic waves. Again during the 1980's and 1990's she and her collaborators used nonlinear analysis to make foundational contributions to aerodynamics.

Among her many honors are memberships in the National Academy of Sciences and the American Academy of Arts and Sciences. Currently Cathleen Morawetz is President of the American Mathematical Society, an organization where she has served in a great many capacities since 1972. Besides her numerous professional activities, she served on the board of trustees of Princeton university, NCR and the Sloan Foundation.

She has succeeded in raising three daughters and a son who respectively are a psychiatrist, a law professor, a corporate vice-president and a union expert on occupational hazards. Her hobbies are sailing and her grandchildren.



CALIFORNIA INSTITUTE OF TECHNOLOGY

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LECTURE

1997

The Charles R. DePrima Memorial Undergraduate Mathematics Lecture was established by a gift from Charles R. DePrima and Margaret Thurmond DePrima. The Institute is privileged to honor the memory of Professor DePrima and his distinguished contribution to mathematics and Caltech, where he served as a faculty member for over forty years, with a lecture each year by an outstanding mathematician.

