

PEDRO NUNES LECTURES

MICHAEL CHRIST
UC BERKELEY



OSCILLATORY MULTILINEAR INEQUALITIES

WITH CONNECTIONS TO WEB GEOMETRY, LOGIC,
COMBINATORICS, CONVEX GEOMETRY, COMPUTER SCIENCE, WEAK
CONTINUITY, ERGODIC THEORY, AND MORE

MAY 7 — 2025

INSTITUTO SUPERIOR TÉCNICO
14H — ANFITEATRO ABREU FARO

MAY 9 — 2025

DEPARTAMENTO DE MATEMÁTICA DA FCUP
14.30 — SALA 0.07

Michael Christ (born 7 June 1955) is an American mathematician and Emeritus Professor at the University of California, Berkeley.

His research has Fourier analysis at its core and encompasses partial differential equations, complex analysis in several variables, and topics in mathematical physics. Among his many outstanding research contributions, we highlight the definitive analysis of

global regularity of solutions of $\bar{\partial}$ -bar problems on pseudoconvex domains, the proof (with Colliander and Tao) of the ill-posedness of low-regularity solutions of the nonlinear Schrödinger equations, and the characterization (with Kiselev) of the absolutely continuous spectrum and generalized eigenfunctions for second-order ODE with potentials on the real line.

Michael has been an invited lecturer twice at the International Congress of

Mathematicians, first in Kyoto in 1990 and then in Berlin in 1998. He has received numerous honors and awards, including an NSF Presidential Young Investigator Award and a Sloan Fellowship, the Bergman Prize from the AMS, and a Miller Research Professorship. He was elected to the American Academy of Arts and Sciences in 2007.



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