

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

**ON THE SOLVABILITY OF GENERAL
INVERSE σ_K EQUATIONS**

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CCDS 365, Apr 24, 2024, 4-5pm

Tea: 3:45pm in Room 365

Abstract: In this talk, first, I will introduce general inverse σ_k equations in Kähler geometry. Some classical examples are the complex Monge–Ampère equation, the J-equation, the complex Hessian equation, and the deformed Hermitian–Yang–Mills equation. Second, by introducing some new real algebraic geometry techniques, we can consider more complicated general inverse σ_k equations. Last, analytically, we study the solvability of these complicated general inverse σ_k equations.

See <http://math.bu.edu/research/geom/seminar.html> or contact Yu-Shen Lin (yslin@bu.edu) or Brian Williams (bwill22@bu.edu) for more information.