THE QUANTUM LEFSCHETZ PRINCIPLE

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Time：Thu, Dec. 14, 16:00-17:00

Venue: Room 346, Shanghai Center for Mathematical Sciences

Abstract: "Quantum Lefschetz" is a pretentious name for understanding how moduli spaces -- and their virtual cycles and associated invariants -- change when we apply certain constraints. (The original application is to genus 0 curves in P^4 when we impose the constraint that they lie in the quintic 3-fold.)

When it doesn't work there are fixes (like the p-fields of Guffin-Sharpe-Witten/Chang-Li) for special cases associated with curve-counting. We will describe joint work with Richard Thomas developing a general theory.