OCTAV CORNEA, University of Montreal, Montreal, QC
Numerical Invariants for Lagrangian Submanifolds

We show that the understanding of certain natural algebraic invariants associated to a class of Lagrangian submanifolds (called wide) is intimately related to certain number theoretic questions via the theory of quadratic forms. This relation is significant because it offers a conceptual perspective on the definition of some enumerative invariants involving genus zero pseudo-holomorphic curves with boundary.

This talk is based on joint work with Paul Biran.