

ON THE FIXED DOMAIN GROMOV–WITTEN INVARIANTS OF POSITIVE SYMPLECTIC MANIFOLDS

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The fixed domain Gromov–Witten invariants of a symplectic manifold are virtual counts of stable maps whose domain has a fixed stabilization. Based on their computations, Lian and Pandharipande conjectured that these invariants are enumerative for projective Fano manifolds and curves of high degree. Although examples constructed by Beheshti et al. disprove the strict, algebraic version of the conjecture, we show that its symplectic analogue holds: for a positive symplectic manifold, the high degree fixed domain Gromov–Witten invariants are counts of pseudo-holomorphic curves with respect to a generic almost complex structure. This is joint work with Alessio Cela (University of Cambridge).