1014-58-488   **Brett D Parker*** (`parker@math.mit.edu`). *Holomorphic curves in Lagrangian torus fibrations.*
Given a symplectic manifold which is a Lagrangian torus fibration, we can consider a family of complex structures tamed by the symplectic form which can be considered as collapsing the torus fibers. Under this degeneration, holomorphic curves converge to objects in the base manifold called holomorphic graphs. We can reconstruct topological invariants of the moduli space of holomorphic curves (such as Gromov-Witten invariants) using these holomorphic graphs. This can be considered as a analytic version of the techniques used to study holomorphic curves in Tropical geometry. (Received September 18, 2005)