MODULI SPACES OF HOLOMORPHIC CURVES

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This talk will be an introduction to moduli spaces of holomorphic curves in symplectic manifolds, with a focus on the following topics: salient features of these moduli spaces (conformal invariance, concentration of energy, non-compactness, non-smoothness); methods to extract invariants from them (Kuranishi structures, polyfolds); and selected applications in symplectic geometry.