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**Speaker:** Max Lipyanskiy  
MIT

Thursday, April 24, 2008  
2:00 PM  
258 Hurley Hall

**Title:** A Semi-Infinite Cycle Construction of Floer Theory

**Abstract:**

I will define a new construction of Floer-theoretic invariants closer in spirit to bordism than Morse theory. As an illustration of this theory, I will discuss two examples: Hamiltonian Floer Homology for loops in  $\mathbb{R}^n$  and Seiberg-Witten-Floer theory of 3-manifolds.