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**Lisette dePillis\*** (depillis@hmc.edu), Department of Mathematics, Harvey Mudd College, 301 Platt Blvd, Claremont, CA 91711. *Mathematical Approaches to Modeling Immune-Cancer Dynamics*.

The critical importance of the immune system in combating cancer has been verified both clinically and through mathematical models. In this talk, we will discuss the components of the immune system that have been shown to play an important role in the progression and control of cancer, along with our approaches to modeling tumor-immune interactions and treatment approaches that harness the power of the immune system. (Received August 09, 2010)