

*PDE, Complex Analysis  
and Differential Geometry*



**Speaker:** Turgay Bayraktar  
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Thursday, April 21, 2011  
10:00 am  
231 Hayes Healy Hall

**Title:** Green Currents for Meromorphic Maps of Compact Kähler Manifolds

**Abstract:**

Let  $X$  be a compact Kähler manifold and  $f : X \dashrightarrow X$  be a dominant meromorphic map. It is known that we may define a linear pullback map  $f^* : H^{1,1}(X, \mathbb{R}) \rightarrow H^{1,1}(X, \mathbb{R})$ . In this talk, we will discuss invariance properties of some positive closed convex cones in  $H^{1,1}(X, \mathbb{R})$  under this linear action. We will also give an elementary construction of so called Green currents under mild dynamical assumptions. If the time allows we will discuss some further properties of these currents.