

# Philadelphia Area Number Theory Seminar

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## Automorphic Integrals and Mock Modular Forms

**Abstract:** Ramanujan, in his last letter to Hardy, introduced his now well-known mock theta functions, and there has been a recent resurgence of activity and research pertaining to mock theta functions, mock modular forms, and other closely related functions. However, almost fifty years ago Douglas Niebur discovered a generalization of automorphic forms that turns out to be quite closely related to mock theta functions. These functions that Niebur discovered { automorphic integrals { arose within a completely different context and have also been worked on quite a bit. In this talk, I'll try to explain the bridge between these seemingly different objects and survey some of the work that has been done on them.

Thursday, February 18, 2016  
2:40{4:00PM

Bryn Mawr College  
Department of Mathematics  
Park Science Center **328**

Tea and refreshments at 2:20PM in Park 355