

NUMBER THEORY
SEMINAR

Power series expansions for modular forms

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Abstract: We exhibit a method to numerically compute power series expansions of modular forms on a cocompact Fuchsian group, using the explicit computation a fundamental domain and linear algebra. As applications, we compute Shimura curve parametrizations of elliptic curves over a totally real field including the image of CM points, and equations for Shimura curves.

Wednesday, February 13, 2013, 3:00 pm
Mathematics and Science Center: W306

MATHEMATICS AND COMPUTER SCIENCE
EMORY UNIVERSITY