



EINLADUNG

zum Mathematischen Kolloquium
im Rahmen des Graduiertenkollegs
„Experimentelle und konstruktive Algebra“

am Donnerstag, 06.07.2017

Zeit: 11:30 Uhr

Ort: Seminarraum 248, Hauptgebäude

Vortragender: Prof. Dr. Sho Takemori
(Hiokkaido University, z.Zt. MPI Bonn)

Titel: Construction of theta functions of any vector valued weight
and applications to lifts and congruences

Abstract:

It is well-known that one can construct some of Siegel modular forms of vector valued weight by theta functions associated with pluri-harmonic polynomials. But if the polynomial representation is general, it is not so clear to construct pluri-harmonic polynomials concretely. In this talk, I will explain a way to construct such pluri-harmonic polynomials. And as an application, I will give some examples of vector valued Siegel modular forms of degree 3, which appears in the lifting conjecture by Bergström, Faber and van der Geer. I will also talk about congruences between (conjectural) lifts and other forms. This is a joint work with emeritus Professor Ibukiyama.

Wir laden alle Interessierten herzlich ein.