Workshop on T-Varities

ZEIT:
3.8.2006, 11:00 Uhr - 4.8.2006, 16:00 Uhr

ORT:
Freie Universitaet Berlin
Institut für Mathematik
Arnimallee 3, Hörsaal 1
14195 Berlin

PROGRAMM:

3.8.2006

11:00 - 13:00 **Rene Birkner**

GIT and Chow Quotients by Tori
In this talk we will give a gentle introduction to invariant theory. In particular, categorical, good and geometric quotients, as well as linearisations and (semi) stable points will be defined. As an application, we will see how the torus
 acts on
 and that GIT-quitients are toric (fiberpolytopes). The Chow quotient is given by the Minkowski sum of them.

14:00 - 16:00 **Prof. Klaus Altmann**

Affine T-Varities
We will look at affine toric varieties or
 as T-varieties and describe closed T-subvarieties. As a useful tool, we will give the general construction of polyhedral divisors and, in the special case of codimension 1 actions, we will compare these with toroidal varieties. Examples are the Russell cubic and certain non-normal surfaces.

16:00 - 18:00 **Hendrik Süss**

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Morphisms and Gluing
The topics of this talk are morphisms among affine T-varieties, localization by homogeneous elements and open embeddings. We will have a look at divisorial fans; these will be illustrated by examples like toric vector bundles and compactifications of affine -surfaces.

4.8.2006

10:30 - 13:00 **Robert Vollmert**

Grass$(2,n)$ as a fansy divisor on $M_{0,n}$
We will describe Chow quotients and secondary polytopes and see that
equals the Chow quotient of Grass
. Then we will calculate an affine chart of Grass
or of Grass
and have a look at the affine cone over a projective T-variety.

14:00 - 17:00 Open discussion on further topics

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