Young Women Young Women in Topology Meeting 2013
University of Bonn, June 7-9, 2013

Talk 4:
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<u>Moment Graphs and Algebraic Groups</u>

Moment graphs were introduced as a combinatorial tool to determine the equivariant (intersection) cohomology of a variety with a certain torus action by Braden and MacPherson. We will discuss them and related concepts, such as sheaves on moment graphs. Moreover, an idea will be given, how moment graphs can be applied in representation theory using the example of representations of algebraic groups.