

1086-16-1655

Georgia Benkart* (benkart@math.wisc.edu), Department of Mathematics, University of Wisconsin-Madison, Madison, WI 53706, **Samuel Lopes** (slopes@fc.up.pt), Centro de Matematicas, Universidade do Porto, 4169-007 Porto, Portugal, and **Matthew Ondrus** (mattondrus@weber.edu), Mathematics Department, Weber State University, Ogden, UT 84408.
Representations and Combinatorics on the Weyl Side.

The Weyl algebra arises in many different settings in mathematics and physics. This talk will focus on a family of subalgebras of the Weyl algebra, which can be viewed as algebras of differential operators with polynomial coefficients. In our joint work, we have investigated the structure of these algebras and determined their irreducible representations. There are interesting (non-standard) connections with the lattice of partitions. (Received September 23, 2012)