

1095-18-228

Zsuzsanna Dancso*, zsuzsi@math.toronto.edu, and **Anthony Licata**. *Bipartite algebras and a categorification of the cut- and flow lattices of graphs*. Preliminary report.

We study a class of finite dimensional Koszul algebras (“bipartite algebras”) associated to bipartite graphs. We discuss their duality properties and representation theory, as well as an application to the categorification of the cut and flow lattices of graphs. We suspect that bipartite algebras also arise naturally in several other contexts. This is work in progress with Anthony Licata. (Received September 09, 2013)