

Hyperplane arrangements arising from symplectic singularities

Gwyn Bellamy

University of Glasgow

The purpose of this talk is to advertise the fact that (conic) symplectic singularities give rise to non-trivial hyperplane arrangements that have the property that (a) they contain a Coxeter arrangement as a subarrangement (b) the corresponding (finite) Coxeter group permutes the hyperplanes in the arrangement. I will explain how Namikawa's theory gives rise to these arrangements. Most of the talk will focus on describing concrete examples arising from either symplectic quotient singularities or from Nakajima quiver varieties - these examples arose in a number of joint works with Schedler-Thiel, Craw, Craw-Rayan-Schedler-Weiss, Craw-Schedler.