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Restrictions of Reflection Arrangements and Asphericity

Suppose that G is a finite unitary reflection group acting on the complex vector space V and let $\mathcal{A} = \mathcal{A}(G)$ be the associated reflection arrangement. It has been a long standing conjecture that in this case the complement of \mathcal{A} in V is aspherical, with the last six open cases being settled by Bessis in 2015.

We will have a look at the situation for restrictions of reflection arrangements to elements of their intersection lattice. In particular, we will focus on the restrictions of the infinite family $\mathcal{A}(G(r, p, \ell))$.