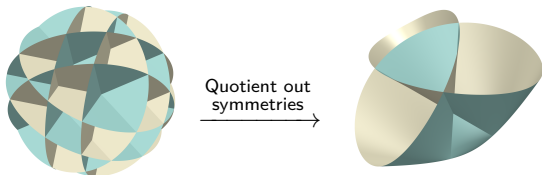


Arrangements of linear spaces with symmetries

Paul Görlach, Max Planck Institute Leipzig
joint work with Papri Dey and Nidhi Kaihnsa



$\mathcal{A} = \bigcup_{i=1}^k L_i \subseteq \mathbb{P}^n$ a G -invariant arrangement of linear spaces,
where $G =$ reflection group generated by coordinate hyperplanes.

- Describe the image of \mathcal{A} under the quotient $\mathbb{P}^n \rightarrow \mathbb{P}^n/G$.
- Which polynomial functions vanish on the arrangement \mathcal{A} ?

On which combinatorial structure do the answers depend?