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Macaulay Duals of Generic Hyperplane Arrangments

Given a generic hyperplane arrangement $\mathcal{A}$ with with defining polynomial $f_{\mathcal{A}}$, we ask when the Macaulay dual, $f_{\mathcal{A}}^{\perp}$ is a complete intersection. We discuss a lower bound on the initial degree of $f_{\mathcal{A}}^{\perp}$ that answers this for $|\mathcal{A}|$ sufficiently small, as well as discussing examples for when this lower bound can give no information.