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Generalizing the MacLane Arrangements Kwai-Man Fan, Chung Cheng University, Taiwan

Abstract

We give a general method to construct arrangemnts of complex projective lines in the complex projective plane such that up to projective transformations, there are only finitely many arrangements which are lattice isomorphic to the given arrangements. We give some examples of arrangements of these type which have ten to twelve lines to illustrate the method.