TULSF

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Geproci sets on skew lines in P^3 with two transversals

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Abstract

A set of points Z in $\mathbb{P}^3$ is an (a,b)-geproci set (for GEneral PROjection is a Complete Intersection) if its projection from a general point to a plane is a complete intersection of curves of degrees a and b. we will report on some results in order to pursue classification of geproci sets. Specifically, we will show how to classify (m,n)-geproci sets Z which consist of m points on each of n skew lines, assuming the skew lines have two transversals in common. We will show in this case that n<7. Moreover we will show that all geproci sets of this type and with no points on the transversals are contained in the F_4 configuration. We conjecture that a similar result is true for an arbitrary number m of points on each skew line, replacing containment in F_4 by containment in a half grid obtained by the so-called standard construction.

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