Matroids, two-graphs and the embedded topology of quartics and bitangent lines

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SUMMARY

Smooth quartic curves and their bitangent lines are very classical and interesting objects studied by many mathematicians. In this talk, concepts from graph theory and combinatorics, namely matroids and two-graphs are introduced and applied to the study of the embedded topology of arrangements consisting of smooth quartics and bitangent lines, providing another interesting aspect to the study of quartic curves.

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