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Incidence geometry and tiled surfaces

mercredi 26 juin 2024 10:00 (45 minutes)

We show that various classical theorems of real/complex linear incidence geometry, such as the theorems of Pappus, Desargues, Möbius, and so on, can be interpreted as special cases of a general result that involves a triangulation of a closed oriented surface, or a tiling of such a surface by quadrilateral tiles. This yields a general mechanism for producing new incidence theorems and generalizing the known ones.

This is joint work with Pavlo Pylyavskyy, see https://arxiv.org/abs/2305.07728.

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