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6. MATEMATICKÉ KOLOKVIUM

Prof. David Calderbank (Univ. of Bath)

Geometrical configurations and renderings of buildings
(14.8.2013)

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budova MFF UK, Sokolovská 83, Praha 8

Abstract:

Configurations of points, lines and planes have been studied in geometry since classical times. Many such configurations, ranging from the planar quadrilateral to more complicated Cox configurations, have a rich combinatorial structure related to Coxeter groups. In this talk I will explain how the modern language of buildings allows one to view these configurations as shadows of higher dimensional rigid combinatorial objects through a process called "parabolic projection". The theory will be illustrated by examples throughout.