

Abstract submitted for Thirty-Third Annual Victorian Algebra Conference

Title: Picturing flags

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What is a flag variety? A lattice? A projective space? The Veblen-Young theorem? Cosets? Subspaces? A building? A simplicial complex? A generalised generalised quadrangle? An incidence geometry? A Chevalley group? Borel subalgebras? Borel subgroups? The LUP factorisation? The Bruhat decomposition? The Schubert calculus? A polarization? A twisted Chevalley group? An isotropic subspace? An ovoid? A finite simple group? Perhaps the right answer is in the title of Wassily Kandinskys book, POINT AND LINE TO PLANE.