

1027-05-108

R. M. Green* (rmg@euclid.colorado.edu), Department of Mathematics, University of Colorado at Boulder, Campus Box 395, Boulder, CO 80309-0395. *Representations arising from the Gosset graph.*

The Gosset graph is a certain distance-regular graph on 56 vertices, whose vertex set may be identified with the set of edges of two copies of the complete graph on 8 vertices. This talk will discuss applications of the Gosset graph to the representation theory of Lie algebras and to classical algebraic geometry. (Received February 21, 2007)