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Root Systems, Angle Representations, and Signed Graphs

Abstract for the Combinatorics Seminar 2013 February 19, 26

Equiangular lines are lines that all make the same angle with each other. Take a unit vector in each line. The matrix of inner products of these vectors is (except for the units in its diagonal) a fixed multiple of a signed-graph adjacency matrix. Examples are the classical root systems A_n and D_n . I will ramble on about these topics and their connection with signed graphs and regular two-graphs for an hour or so.

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Last update: **2020/01/29 19:03**

