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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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