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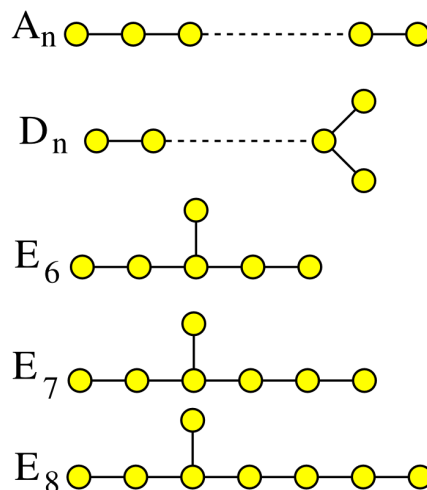
Foreningen af Matematikere – Aarhus Universitet
Institut for Matematiske Fag – Aarhus Universitet – 8000 Århus C
Email: euler@imf.au.dk – Web: <http://www.euler.au.dk/>

Quivers, their representations and quiver varieties

Sergey Arkhipov

Torsdag d. 20. september kl. 16 i Aud. D1

We review representation theory of quivers. Gabriel's theorem and Ringel's results of the 90's relate representations of A, D, E type quivers with quantum enveloping algebras of simple Lie algebras. We review this construction. Lusztig transferred the idea to pass directly from a Dynkin graph to the corresponding Lie algebra by means of representations of quivers to geometry. We introduce quiver varieties and discuss the relation of their geometry to the theory of crystal bases. We explain how categorification of quantum groups appears naturally in this context.



*Mød op, hør foredraget og grib chancen for at blive medlem af Eulers Venner.
Vi giver kaffe, te og kage.*