Thematic Session

Session title: Knot Theory

Organizers:

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Description of the topic:

The area of knot theory has been developing rapidly in recent years. We would like to focus on the connections between algebra, homological algebra and knot theory, starting with skein modules of links in 3-manifolds all the way to the Khovanov and Heegard-Floer homology and homology of distributive structures (i.e. Quandles, racks, distributive lattices) and Yang Baxter operators, and their connections, as well as categorifications of knot polynomials and other appropriate combinatorial structures.

2011 Mathematic Subject Classification:

57M25, 57M27