AFFINE FLAG VARIETY AND QUANTUM SYMMETRIC PAIR

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Time：Thu, Sep. 12, 10:30-11:30

Venue: Room 106，SCMS

Abstract: In this talk, I'll introduce Schur algebra and its Lusztig subalgebra associated to affine flag variety of type D. We show that the i-quantum group corresponding to

subalgebra of the Lusztig algebra forms quantum symmetric pairs together with U_q(\widehat{sl}_n).

We further construct monomial and canonical bases of its idempotented version and prove the positivity properties of the canonical basis with respect to multiplication and the bilinear pairing. This is a join work with Quanyong Chen.