第 7 回 広島組合せ論セミナー

講演日時: 2016 年 3 月 5 日 (土) 15:00-

場所: 広島工業大学 (五日市キャンパス) NX-607

講演者: Jae-Ho Lee (東北大学情報科学研究科)

タイトル: Nonsymmetric Askey-Wilson polynomials and Q-polynomial distance-regular graphs

概要: Roughly speaking, Nonsymmetric Askey-Wilson polynomials are eigenfunctions of the Cherednik-Dunkl operator and form a linear basis of the vector space of the Laurent polynomials in one-variable. In this talk, we define a finite sequence of certain Laurent polynomials in one-variable, using a Q-polynomial distance-regular graph that contains a Delsarte clique. We prove the orthogonality relations for these polynomial, using a representation for a universal double affine Hecke algebra of rank 1. And we show how our Laurent polynomials can be viewed as a finite/ combinatorial analogue of the nonsymmetric Askey-Wilson polynomials.