

Intertwining operator for the dihedral group

04.01**Yuan Xu***(University of Oregon, USA)***Time:** Thursday 25.07., 10:30 - 11:00, Room HS 6

Abstract: Dunkl operators associated to a dihedral group are a pair of differential-difference operators that generate a commutative algebra. The intertwining operator intertwines between this algebra and the algebra of ordinary differential operators. We will discuss an integral representation of the intertwining operator on a class of functions. As an application, closed formulas of the Poisson kernels are derived for sieved Gegenbauer polynomials and several related families of orthogonal polynomials.