

New degenerate Eulerian polynomials

12.10**Orli Herscovici***(Department of Mathematics, Technion – Israel Institute of Technology, Haifa, Israel)***Time:** Friday 26.07., 10:30 - 11:00, Room HS 4

Abstract: We introduce a new generalization of the Eulerian polynomials based on the degenerate exponential function defined by Tsallis. Classical Eulerian polynomials can be defined by a few different generating functions. We present the generalizations of those generating functions, study properties of the degenerate Eulerian polynomials and present generalizations of some familiar identities which we have established in our preliminary work. Moreover, we give an explicit form of the coefficients of the degenerate Eulerian polynomials.