

Meeting: 999, Nashville, Tennessee, AMS CP 1, Session for Contributed Papers

999-65-169 **Maitree - Podisuk*** (mpodisuk@hotmail.com), Faculty of Science, KMITL, Ladkrabang, 10520
Bangkok, Thailand. *A Sequence of Orthogonal Polynomials and Its Application.*

In this paper, we will introduce a new sequence of orthogonal polynomials on a finite domain. An application of this new sequence of orthogonal polynomials in the kind of Gaussian quadrature formula for numerical integration will be explored. At the end, we will use new formulas to find the numerical integrals of some selected functions. (Received August 22, 2004)