

# **Orthogonal polynomials for difference operators: a Heisenberg-Weyl algebraic approach**

Edmund Y. Chiang

*Baylor University & The Hong Kong Univ. of Sci. & Tech.*

## **Abstract**

Recent advances in special functions show that there are natural analogues of difference special functions written in terms of Newton basis from the Heisenberg-Weyl algebra viewpoint. We show that there are also corresponding orthogonal polynomials written in terms of Newton basis.