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**Xin Li\*** (xin.li@ucf.edu) and **Rajitha Ranasinghe**. *Boas Formula for Askey-Wilson Operator on Entire Functions of Exponential Type*. Preliminary report.

Boas formula is an interpolating formula for the derivative of an entire function of exponential type in terms of its values at equally spaced points. Boas used his formula to give a shorter proof of his generalization of Bernstein inequality to entire functions. In this talk, an analogue will be presented for Askey-Wilson operator. We will then establish generalizations of Bernstein inequality for Askey-Wilson operator to entire functions in uniform and  $L_2$  norms. Finally, as a further application of our formula, we will prove some interesting identities of Ramanujan. (Received July 31, 2017)