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Ae Ja Yee, 327 McAllister Bldg, University Park, PA 16802, and **Kagan Kursungoz***
(kursun@math.psu.edu), 001 McAllister Bldg, University Park, PA 16802. *A Generalization of
Algorithm-Z with Application*. Preliminary report.

We will remind algorithm-Z, and show how it is used in proving q-binomial theorem bijectively. Then we will present a generalization with one more parameter, and show how this generalization proves q-Gauss summation formula bijectively. We will discuss current related projects and open problems as time allows. (Received September 20, 2010)