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## Rachel E. Vincent-Finley\* (rachel\_finley@subr.edu), Sean Brooks (sbrooks@coppin.edu), Ron Buckmire (ron@oxy.edu) and Bonita V. Saunders (bonita.saunders@nist.gov). Validated Computation of Special Functions III: DLMF Tables.

DLMF Tables, short for DLMF Standard Reference Tables on Demand project, is a spin-off of the NIST Digital Library of Mathematical Functions (DLMF). The project is a collaborative effort between the National Institute of Standards and Technology (NIST) and the University of Antwerp to develop an online software testing system that generates validated tables of special function values computed to user-specified precision with an error certification. In this talk we look at the DLMF Tables beta site where techniques explained in our earlier talks (Parts I and II) were previously implemented. We also discuss our plans for a multi-level interface that will make the system accessible to various classes of users, from those with only a casual interest to scientific researchers, personal or commercial software developers, and numerical analysts. (Received September 11, 2020)