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Bonita Saunders* (bonita.saunders@nist.gov), NIST, 100 Bureau Drive, Stop 8910, Gaithersburg, MD 20899, and **Bruce Miller, Marjorie McClain, Daniel Lozier, Andrew Dienstfrey, Franky Backeljauw, Stefan Becuwe** and **Annie Cuyt**. *DLMF Live! Tables: NIST/Antwerp Collaboration for Standard Reference Tables on Demand.*

In 2010 the National Institute of Standards and Technology (NIST) launched the Digital Library of Mathematical Functions (DLMF) and its companion book, NIST Handbook of Mathematical Functions to replace the popular, but outdated Abramowitz and Stegun handbook on special functions. While no provision for a computational component to the DLMF was made, NIST has decided to take on that task by collaborating with the University of Antwerp Computational Mathematics (CMA) Research Group to build the DLMF Standard Reference Tables (DLMF Tables) web service. DLMF Tables will provide a standard of comparison for testing numerical software by computing, on demand, special functions to user-defined accuracy with guaranteed error bounds. Features of the beta site recently released will be discussed and demonstrated. (Received September 22, 2015)