1116-68-1495   **Howard S. Cohl*** (`howard.cohl@nist.gov`), 100 Bureau Drive, Mail Stop 8910, Gaithersburg, MD 20899, **Moritz Schubotz** (`schubotz@tu-berlin.de`), Berlin, Germany, **Marjorie A. McClain** (`marjorie.mcclain@nist.gov`), 100 Bureau Drive, Mail Stop 8910, Gaithersburg, MD 20899, **Bonita V. Saunders** (`bonita.saunders@nist.gov`), 100 Bureau Drive, Mail Stop 8910, Gaithersburg, MD 20899, and **Cherry Y. Zou** and **Azeem S. Mohammed**. *Orthogonal Polynomial Seeding for the Digital Repository of Mathematical Formulae.*

Our initial NIST Digital Repository of Mathematical Formulae (DRMF) seeding effort has been the Chapter 25 on zeta functions, from the NIST Digital Library of Mathematical Functions (DLMF). The DLMF input LaTeX source already contains some semantic information encoded using a highly customized set of semantic LaTeX macros. This year, we have developed a semantic enrichment process for orthogonal polynomial formula data. The generated context-free semantic information is used to build DRMF orthogonal polynomial formula home pages. We demonstrate this process using selected chapters from the book "Hypergeometric Orthogonal Polynomials and their q-Analogues" (2010) by Koekoek, Lesky and Swarttouw (KLS) as well as an actively maintained addendum to this book by Koornwinder (KLSadd). The generic input KLS and KLSadd LaTeX sources describe the printed representation of the formulae, but does not contain explicit semantic information. (Received September 20, 2015)