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Stephen Bruce Sontz* (sontz@cimat.mx), CIMAT, Jalisco s/n, Mineral de Valenciana, 36024 Guanajauto, Gto., Mexico. *Recent results in Segal-Bargmann theory associated with a Coxeter group.*

We apply a technique of functional analysis (the polar decomposition) as a way to define the Segal-Bargmann transform (in four of its versions) in the Segal-Bargmann theory associated to a Coxeter group acting in a Euclidean space. This complements a talk that will be given in the special session on Toeplitz Operators and Discrete Quantum Models. (Received April 10, 2010)