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**Solomon Friedberg\***, Department of Mathematics, Boston College, Chestnut Hill, MA 02467-3806, and **Lei Zhang**, Department of Mathematics, National University of Singapore, Block 17, 10 Lower Kent Ridge Road, 119076, Singapore. *Tokuyama-type formulas for characters of Spin groups.*

We obtain explicit formulas for the product of a deformed Weyl denominator with the character of an irreducible representation of the spin group  $\text{Spin}_{2r+1}(\mathbb{C})$ , which is an analogue of the formulas of Tokuyama for Schur polynomials and Hamel-King for characters of symplectic groups. To give these, we start with a symplectic group and obtain such characters using the Casselman-Shalika formula. We then analyze this using objects which are naturally attached to the metaplectic double cover of an odd orthogonal group, which also has dual group  $\text{Spin}_{2r+1}(\mathbb{C})$ . (Received August 24, 2014)