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Melissa Emory* (m.emory@utoronto.ca). *On the global Gan-Gross-Prasad conjecture for general spin groups.*

In the 1990s, Benedict Gross and Dipendra Prasad formulated an intriguing conjecture connected with restriction laws for automorphic representations of a particular group. More recently, Gan, Gross, and Prasad extended this conjecture, now known as the *Gan-Gross-Prasad Conjecture*, to the remaining classical groups. Roughly speaking, they conjectured the non-vanishing of a certain period integral is equivalent to the non-vanishing of the central value of a certain L -function. Ichino and Ikeda refined the conjecture to give an explicit relationship between this central value of a L -function and the period integral. An analogous conjecture was formulated for unitary groups by R.N. Harris. We propose a similar conjecture for a non-classical group, the general spin group, and prove several cases. (Received August 02, 2018)