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Caroline Junkins* (cjunk084@uottawa.ca), Department of Mathematics and Statistics,
University of Ottawa, 585 King Edward, ON K1N 6N5. *The J -invariant and Tits indices for
groups of type E_6 .*

A connection between the indices of the Tits algebras of a split linear algebraic group G and the degree one parameters of its motivic J -invariant was introduced by Quéguiner-Mathieu, Semenov and Zainoulline through use of the second Chern class map in the Riemann-Roch theorem without denominators. We extend their result to higher Chern class maps and provide applications to groups of inner type E_6 . (Received September 15, 2011)