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Roger Howe, Department of Mathematics, Yale University, 10 Hillhouse Ave, New Haven, CT 06520, and Victor Protsak^{*}, Department of Mathematics, SUNY Oswego, Oswego, NY 13126. On branching and tensor product decomposition for G_2 .

Let G be a complex simple algebraic group of type G_2 . We investigate branching from $Spin_7$ to G and the tensor product decomposition of finite-dimensional simple G-modules. The answers are formulated in terms of the lattice volumes of rational convex polytopes. (Received August 20, 2013)