1067-14-984 **Skip Garibaldi*** (`skip@mathcs.emory.edu`), Dept of Math & CS, MSC W401, 400 Dowman Dr, Emory University, Atlanta, GA 30322, and **Kirill Zainoulline**, Ottawa, Canada. *The gamma filtration and codimension 3 cycles on projective homogeneous varieties.*

We bound the torsion in the second quotient of Grothendieck's γ filtration on $K_0(X)$, where X is a certain kind of projective homogeneous variety under a linear algebraic group G. As a consequence, we obtain bounds on the torsion in $CH^3(X)$ and obtain information about the torsion of the generalized Rost motive of X, for some varieties X. (Received September 17, 2010)