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K. A. S. Factor and **S. K. Merz*** (smerz@pacific.edu), Department of Mathematics,
University of the Pacific, Stockton, CA 95219. *Split Domination in Tournaments.*

In a strongly connected digraph, we consider the problem of finding a set of minimum size that is both dominating and separating. A set of vertices, S , is dominating provided for all v in the digraph, either $v \in S$ or $(w, v) \in A(D)$ for some $w \in S$. In a strongly connected digraph, a set of vertices is separating provided removing this set of vertices results in a digraph that is either trivial or not strongly connected. Let D be a strongly connected digraph. Then $\gamma_s(D)$ denotes the split domination number of the digraph, that is, the minimum size of a subset of $V(D)$ that is both dominating and separating. We consider $\gamma_s(T)$ where T is a particular type of tournament. (Received September 26, 2017)