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**Grigori Avramidi, Michael W. Davis, Boris Okun and Kevin Schreve\***  
(kschreve@uwm.edu). *Action Dimension of Right-Angled Artin Groups.*

The action dimension of a discrete group  $\Gamma$  is the smallest dimension of a contractible manifold which admits a proper action of  $\Gamma$ . Associated to any flag complex  $L$  there is a right-angled Artin group,  $A_L$ . We compute the action dimension of  $A_L$  for many  $L$ . Our calculations come close to confirming the conjecture that if an  $L^2$ -Betti number of  $A_L$  in degree  $l$  is nonzero, then the action dimension of  $A_L$  is  $\geq 2l$ . (Received September 15, 2014)