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**Charles E Cunningham\*** (ccunning@bowdoin.edu). *The Geometry of Outer Automorphism Groups of Right-angled Coxeter Groups.*

We investigate the combinatorial and geometric properties of automorphism groups of universal right-angled Coxeter groups. McCullough-Miller space is a polyhedral complex which is virtually a geometric model for the outer automorphism group of a universal right-angled Coxeter group,  $\text{Out}(W_n)$ . As it is currently an open question as to whether or not  $\text{Out}(W_n)$  is  $\text{CAT}(0)$  or not, it would be helpful to know whether McCullough-Miller space can always be equipped with an  $\text{Out}(W_n)$ -equivariant  $\text{CAT}(0)$  metric. We show that the answer is in the negative. This is particularly interesting as there are very few non-trivial examples of proving that a space of independent interest is *not*  $\text{CAT}(0)$ . (Received September 21, 2015)