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**Yulan Qing\*** ([yulan.qing@tufts.edu](mailto:yulan.qing@tufts.edu)), 503 Boston Ave., Medford, MA 02155. *Actions of Right Angled Coxeter Groups*. Preliminary report.

We define a CAT(0) cube complex that is a universal cover of a specific torus complex introduced by Croke and Kleiner. We prove that if an essential right-angled Coxeter group, one without central elements, acts cocompactly, properly discontinuously and by isometry on the the cube complex, then the local gluing geometry of the torus has to be right angle. We also prove further result about that existence of such an action forces strict visual decomposition of the group. (Received September 24, 2012)