1064-53-43Nan Li\* (nli2@nd.edu), Department of Mathematics, University of Notre Dame, 255 Hurley<br/>Hall, Notre Dame, IN 46556, and Xiaochun Rong (rong@math.rutgers.edu), Department of<br/>Mathematics, Rutgers University, 110 Frelinghuysen Rd, Piscataway, NJ 08854. Alexandrov spaces<br/>of relatively maximal volumes.

We will discuss an isometric classification of compact Alexandrov spaces whose volumes are (relatively) maximal under certain constraint (that becomes trivial for Riemannian manifolds). A basic tool for this classification is a pointed version of the Bishop-Gromov relative volume comparison with rigidity in Alexandrov spaces. (Received August 19, 2010)