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Lee Kennard* (lkennar@syr.edu) and **Yusheng Wang**. *Non-cyclic fundamental groups and the Grove symmetry program*. Preliminary report.

While there exist non-cyclic fundamental groups arising from positively curved Riemannian manifolds with symmetry, there are many obstructions in the presence of large symmetry. We will survey this realization problem and report on work in preparation with Yusheng Wang (Beijing Normal University) and published work of my Ph.D. student, Elahe Khalili Samani (Syracuse University). (Received January 18, 2021)