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Grant S Lakeland* (gslakeland@eiu.edu). *Fuchsian groups and geometry*. Preliminary report.

We detail recent computations which focus on the geometry of some Fuchsian groups and some of their finite index subgroups, corresponding to the geometry of hyperbolic surfaces and orbifolds and their finite-sheeted covers. We have a particular focus on arithmetic Fuchsian groups which are non-cocompact. (Received August 30, 2019)