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Circular orderings and amalgamation

Motivated by examples from 3-manifold topology, I will introduce circular orderings of groups and explain the cohomological obstructions to obtaining a left-ordering from a circular ordering. I'll also explain how a recent result with Ty Ghaswala concerning circular orderings of free products with amalgamation is tied to creating circular and left-orderings of fundamental groups of non-geometric 3-manifolds (an essential component of the so-called L-space conjecture).