BARRY MONSON, University of New Brunswick
Finite Polytopes have Finite Regular Covers
Every polygon is combinatorially regular, but most 3-polytopes are not. For example, the five Platonic solids are the only convex regular polyhedra. On the other hand, it has been known for some time (and is not so hard to prove) that every convex 3-polytope, or more generally, map on a compact surface, has a regular cover, although here we must venture into the domain of abstract regular polytopes. What about higher dimensions? Recently, Egon Schulte and I proved the natural, but far from obvious, result that every finite abstract $d$-polytope has a finite regular cover.

