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Boston, MA 02115. *Highly Symmetric Complexes in Space*. Preliminary report.

We report on recent classification results for highly symmetric polyhedra-like structures in ordinary 3-space. In particular, we outline a full classification of regular "polygonal complexes" in 3-space, an ongoing joint project with Daniel Pellicer. Polygonal complexes are more general than polyhedra, in that they can have more than two faces meeting at an edge. (Received July 26, 2010)