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Boston, MA 02115. *Skeletal Polyhedra, Complexes, and Nets*. Preliminary report.

Skeletal polyhedra and complexes are finite, or infinite periodic, geometric edge graphs in space that are equipped with additional polyhedra-like structure determined by faces (simply closed planar or skew polygons, zig-zag polygons, or helical polygons). The edge graphs of the infinite skeletal polyhedra and complexes are periodic nets. We discuss classification results for skeletal polyhedra and complexes by distinguished transitivity properties of the symmetry group, as well as their relevance for the classification of crystal nets. (Received January 26, 2014)