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Daniel Pellicer* (dpellicer@math.unam.mx), Department of Mathematics and Statistics,
University of New Brunswick, Box 4400, Fredericton, NB E3B5A3, Canada, and **Asia I. Weiss.**
Combinatorial structure of chiral polyhedra in the Euclidean space. Preliminary report.

In 2005, Schulte classified all (geometrically) chiral polyhedra in the Euclidean space in six families. The polyhedra in three of these families have finite faces whereas the polyhedra in the other three families have infinite faces. We shall discuss which of these polyhedra are combinatorially chiral and which are combinatorially regular. Furthermore, we shall show a geometric argument that proves the existence of a combinatorial isomorphism between any two chiral polyhedra in each of the classes consisting of polyhedra with infinite faces. (Received February 19, 2009)