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Classification of Mnohedral 2-isohedral Tilings. Preliminary report.

In an extension of the method used by Grünbaum and Shepherd to classify the 93 types of isohedral tilings, a method of classifying normal monohedral 2-isohedral tilings is given. The method subdivides the tile boundary into "edges," then looks at the allowable combinations of what is adjacent and the mapping between the two transitivity classes. All previously published 2-isohedral tilings fit into one of the categories of this classification, although it has not yet been proven that the tiles of any 2-isohedral tiling must have a finite number of such edges. (Received December 30, 2006)