

1173-57-302

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Molecular chirality is actively researched in a variety of areas of biology, including biochemistry, physiology, pharmacology, etc., and today many chiral compounds are widely known to exhibit biological properties. The molecular structure is represented by a graph structure. Therefore, the study of the mirror symmetry of a graph embedded in S^3 is important in the natural sciences. A graph G is said to be intrinsically chiral if no embedding of G is ambient isotopic to its mirror image. In this talk, we classify all simple intrinsically chiral graphs with at most 12 edges. This work is collaborated with Howon Choi and Sungjong No. (Received September 21, 2021)