

A TABLE OF HANDCUFF GRAPH WITH UP TO SEVEN CROSSINGS

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We enumerate all the handcuff graphs with up to seven crossings by using a prime basic θ -polyhedron. A θ -polyhedron is a connected graph embedded in 2-sphere, whose two vertices are 3-valent, and the others are 4-valent. There exist twenty-four prime basic θ -polyhedra with up to seven 4-valent vertices. We can obtain a handcuff graph diagram from a prime basic θ -polyhedron by substituting algebraic tangles for their 4-valent vertices.

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