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A chiral 4-polytope in \mathbb{R}^3

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Abstract: In this paper we describe an infinite chiral 4-polytope in the Euclidean 3-space. This builds on previous work of Bracho, Hubard and the author, where a finite chiral 4-polytope in the Euclidean 4-space is constructed. These two polytopes show that there are finite and infinite chiral polytopes of full rank as defined by McMullen.

Keywords: Chiral 4-polytope, full rank polytope.

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Kiralen 4-politop v \mathbb{R}^3

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Povzetek: V tem članku opišemo neskončen kiralen 4-politop v evklidskem 3-prostoru. Opiramo se na prejšnje delo Bracha, Hubardove in avtorja, v katerem smo konstruirali končen kiralen 4-politop v evklidskem 4-prostoru. Ta dva politopa dokazujeta, da obstajajo končni in neskončni kiralni politopi polnega ranga, kot jih je definiral McMullen.

Ključne besede: Kiralen 4-politop, politop polnega ranga.

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