

The degrees of toroidal regular proper hypermaps*

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Abstract

Recently the classification of all possible faithful transitive permutation representations of the group of symmetries of a regular toroidal map was accomplished. In this paper we complete this investigation on a surface of genus 1 considering the group of a regular toroidal hypermap of type $(3, 3, 3)$.

Keywords: Regular polytopes, regular toroidal maps, regular toroidal hypermaps, permutation groups.

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Stopnje torusnih pravilnih pravih hiperzemljevidov*

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Povzetek

Nedavno je bila narejena klasifikacija vseh možnih zvestih tranzitivno permutacijskih predstavitev grupe simetrij pravilnega torusnega zemljevida. V tem članku to raziskavo na ploskvi z rodом 1 dopolnimo in obravnavamo grupo pravilnih torusnih hiperzemljevidov tipa $(3, 3, 3)$.

Ključne besede: Pravilni politopi, pravilni torusni zemljevidi, pravilni torusni hiperzemljevidi, permutacijske grupe.

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