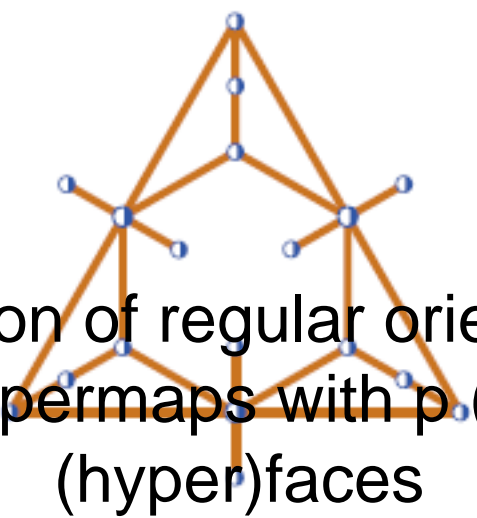


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Classification of regular oriented maps and hypermaps with p (prime) (hyper)faces

Content :

In this talk I report a joint work with Maria Elisa Fernandes. In a previous paper we have classified the primitive hypermaps with p (prime) hyperfaces. Now we use this classification to classify the regular oriented hypermaps with a prime number of hyperfaces. The action of the (orientation preserving) automorphism group on the hyperfaces is primitive and described by a semidirect product of two cyclic groups, a cyclic group of order p and the stabiliser of a hyperface. All chiral hypermaps with p hyperfaces have cyclic chirality groups and those that are not canonical metacyclic have chirality index p . As a natural outcome we count, for each positive integer n and prime p , the number of regular oriented hypermaps with p hyperfaces of valence n .

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