

عنوان مقاله:

Genus g Groups of Diagonal Type

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خلاصه مقاله:

A transitive subgroup $G \leq S_n$ is called a genus g group if there exist non identity elements $x_1, \dots, x_r \in G$ satisfying $G = \langle x_1, x_2, \dots, x_r \rangle$, $\prod_{i=1}^r x_i = 1$ and $\sum_{i=1}^r \text{ind} x_i = 2(n+g-1)$. The Hurwitz space $\mathcal{H}^{\{n\}}_{\{r,g\}}(G)$ is the space of genus g covers of the Riemann sphere $\mathbb{P}^1 \setminus \mathbb{C}$ with r branch points and the monodromy group G . Isomorphisms of such covers are in one to one correspondence with genus g groups. In this article, we show that G possesses genus one and two group if it is diagonal type and acts primitively on Ω . Furthermore, we study the connectedness of the Hurwitz space $\mathcal{H}^{\{n\}}_{\{r,g\}}(G)$ for genus 1 and 2 .

کلمات کلیدی:

Braid Orbit, Genus g System, Primitive Group

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