Abstract

In this paper the authors have considered the molecule C₆H₁₂ (the cyclohexane) and then constructed the group of symmetries of C₆H₁₂ which is a group of order 4. Then they proved that the bounds of the order of symmetry group of Automorphisms of compact Riemann surfaces on which the symmetry group of C₆H₁₂ acts as a group of Automorphism is 4(g-1) where g (≥2) , the genus of the corresponding Riemann surface and the corresponding minimum genu g=2 and associated Fuchsian group has signature ?(2,2,2,2,2) 1991 Mathematics Subject classification -20B30,57M25,05C10,20H10,30F10.

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Index Terms

Computer Science
Applied Sciences

Keywords

point group symmetry Fuchsian group smooth quotient Riemann surface
Automorphism group
Genus