

A reason why the automorphism group of the symmetric group is the symmetric group itself
(for n not 2,6).

Trevor Lee Pasanen
Math, University of Alberta
trevor.pasanen@gmail.com

Abstract

This talk will give a complete description of why $Aut(S_n) \cong S_n$ for $n \neq 2, 6$. Using the power abstract algebra we can gain an understanding of why this is true and appreciate the mysterious reason why it does not hold for S_6 .