

# Aesthetic Charms of Mathematics

**Elena Hadzieva**

University of Information Science and Technology “St. Paul the Apostle”  
Ohrid, R. N. Macedonia

This presentation aims to engage a wider audience, as it takes the form of a popular talk accessible to individuals with varying levels of mathematical expertise. The goal is to highlight the artistic and aesthetic dimensions of mathematics, emphasizing its inherent beauty through qualities such as balance, order, correctness, exactness, truth, and evocative emotions like admiration, excitement, happiness, curiosity, respect, and relaxation. The presentation will explore the natural connections between mathematics and art, mathematics and music, mathematics and patterns, as well as mathematics and design. Overall, the primary objective is to broaden the perspectives of mathematical educators (mostly from universities and high schools), inspiring them to further propagate the allure of mathematics and introduce students to its often-overlooked beauties.