

A História e a Herança da Matemática

Sexta-feira, 30 de junho de 2023, 14h30.

Sala Sousa Pinto

History of mathematics in the classroom: **Which are some errors made by mathematicians in the Middle Age and what can students learn from them?**

There are many different arguments and some didactical designs for using history of mathematics in teaching and learning.

In the first part of the conference, I will present a few examples of factual and contextual errors made by mathematicians in the Middle Age (Fibonacci, Tartaglia, Nicolas Chuquet, Juan de Ortega). This part will conclude by a hypothesis about why some of these errors were repeated over time. In the second part, I will expose didactical designs for possible using of these errors in mathematics learning. In addition, the most important aspects of students' performances in their classroom implementations will be presented and commented.

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Josip Slisko is a Professor – Researcher at the Benemérita Universidad Autónoma de Puebla (Mexico) and a member of Mexican “*National System of Researchers*” (since 1994). His research lines are learning and teaching of physics and mathematics with special focus on development of 21st century skills (critical and creative thinking, collaboration, and communication). Josip Slisko is author of a few pre-university physics textbooks, and author or coauthor of numerous articles published in national and international journals. In Google Scholar, his publications have more than thousand citations.

Since 1993, Josip Slisko is the President of Organizing Committee of the annual international workshop “*New Trends in Physics Teaching*”.

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