



Contribution ID: 273

Type: **Poster**

A simplified approach with FFT and smartphone in high school physics

Wednesday 28 August 2024 12:30 (10 minutes)

This communication explores the application of Fast Fourier Transform (FFT) utilizing smartphones and Jupyter Notebooks to introduce students to the amplitude spectrum as a graphical representation. Through targeted activities, students engage with real-world applications, analyzing sound signals and exploring sound properties in an accessible manner. We introduce our methodology and the materials created for this educational initiative. Additionally, we examine the feasibility and effectiveness of our intervention based on feedback from questionnaires administered to students and outcomes of a test specifically designed according to our learning goals.

How would you like to present your contribution?

Live in Kraków (time slot to be allotted based on the programme)

Target education level

Secondary

Category

Formal Education

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Session Classification: Poster session

Track Classification: Experiments and Practical Work in Physics Education