

TIC@Portugal'21

XV ENCONTRO DE PROFESSORES SOBRE UTILIZAÇÃO EDUCATIVA DAS TIC

A aplicação *phyphox* é um laboratório portátil de Física

16 de julho de 2021

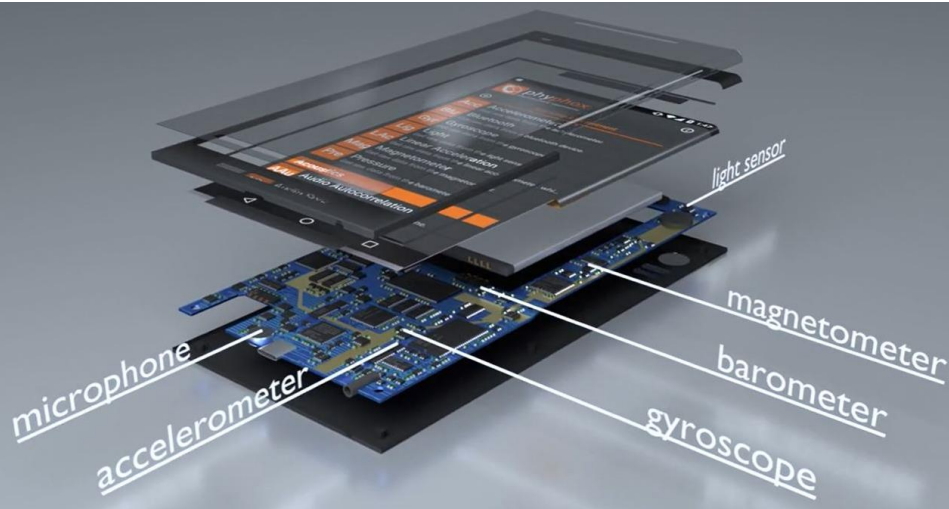


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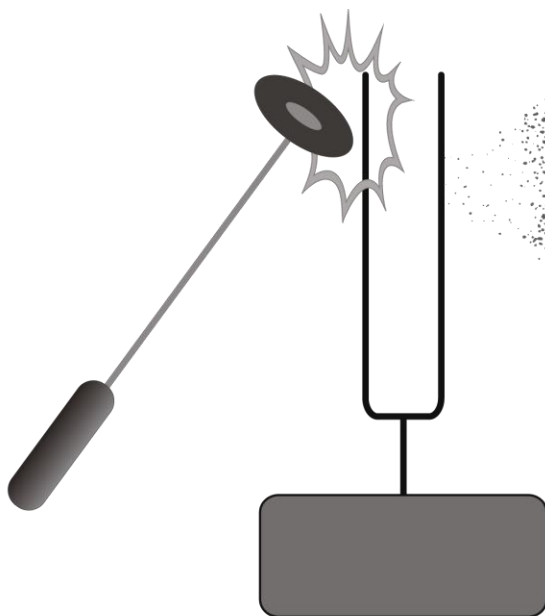
Albino Rafael Pinto (Agrupamento de Escolas da Lixa, Felgueiras)

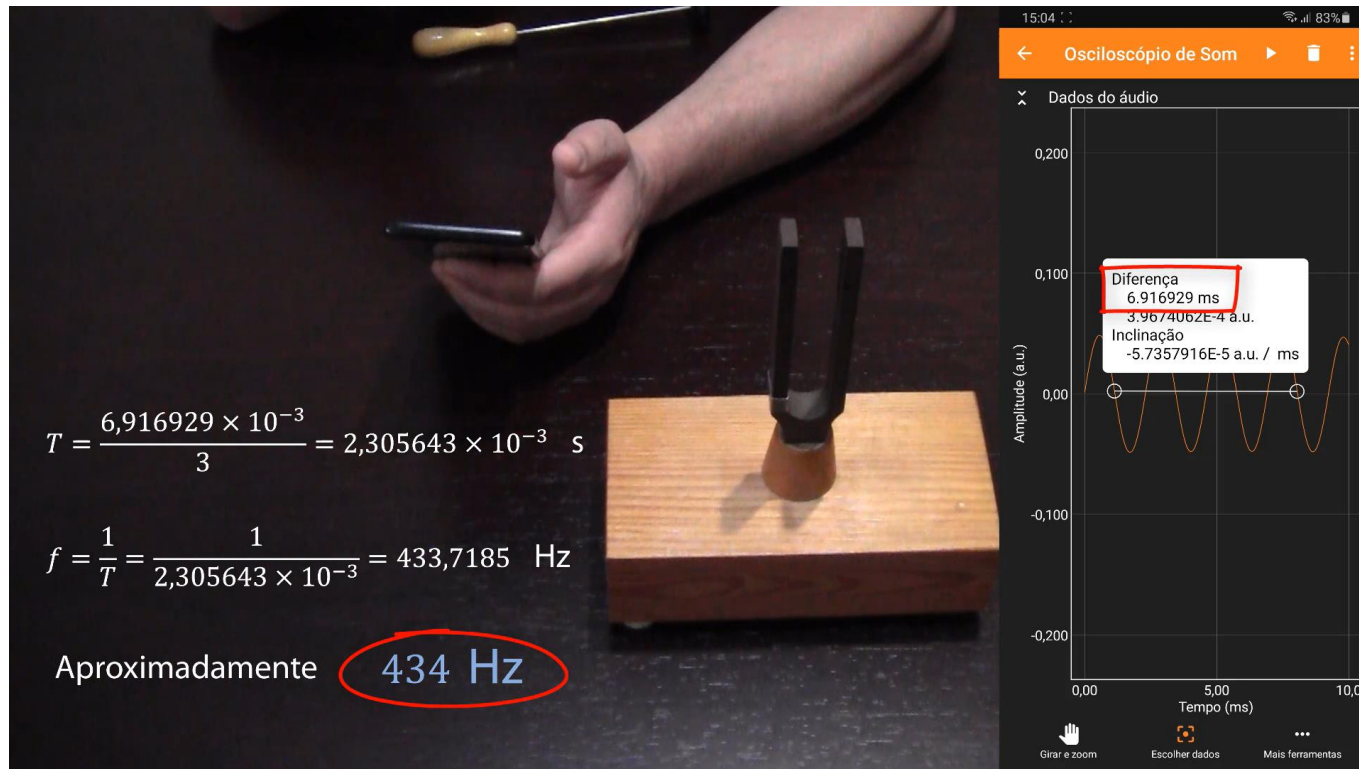
albinorafaelpinto@gmail.com



Instalar a aplicação







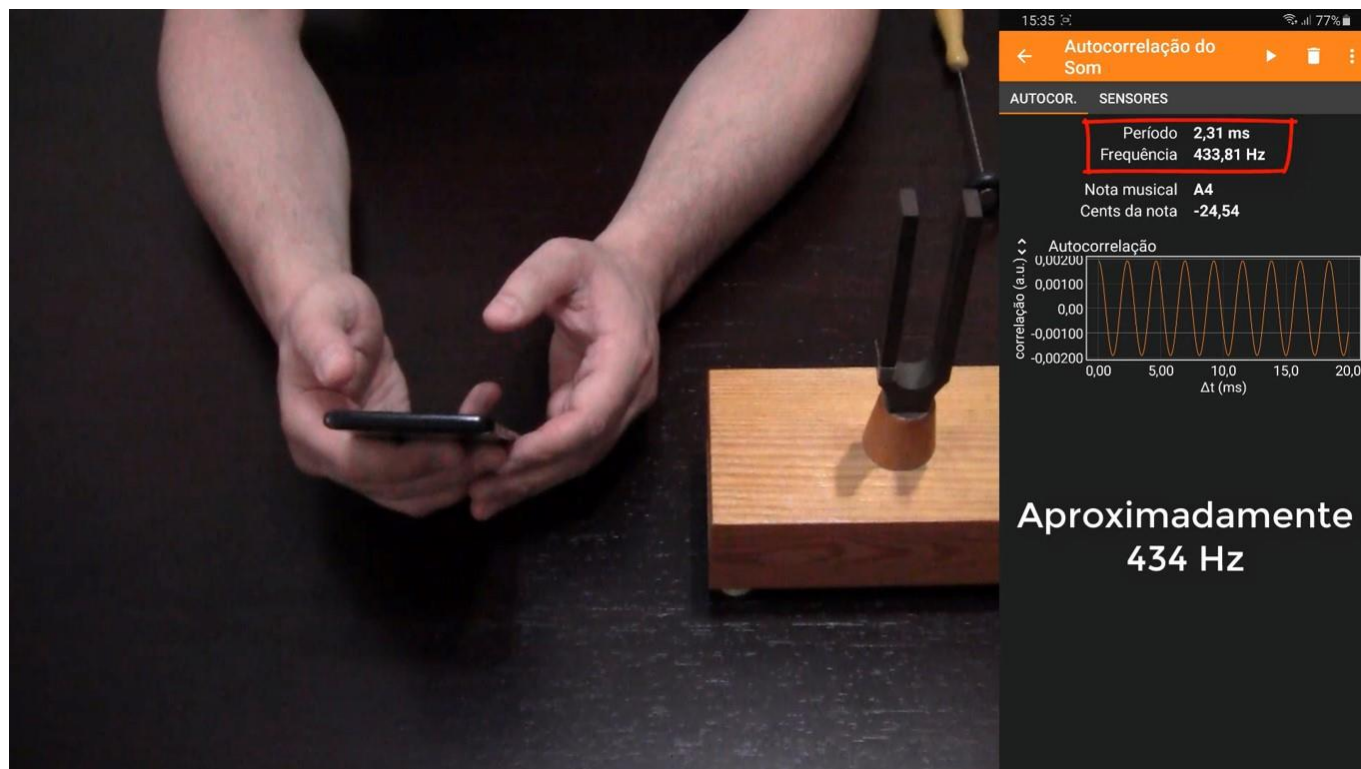
A photograph showing a person's hands holding a smartphone next to a tuning fork mounted on a wooden block. The person is using the phyphox app to measure the frequency of the tuning fork. The app's 'Osciloscópio de Som' (Sound Oscilloscope) is active, displaying a waveform of the sound produced by the tuning fork. The app's interface shows the following data:

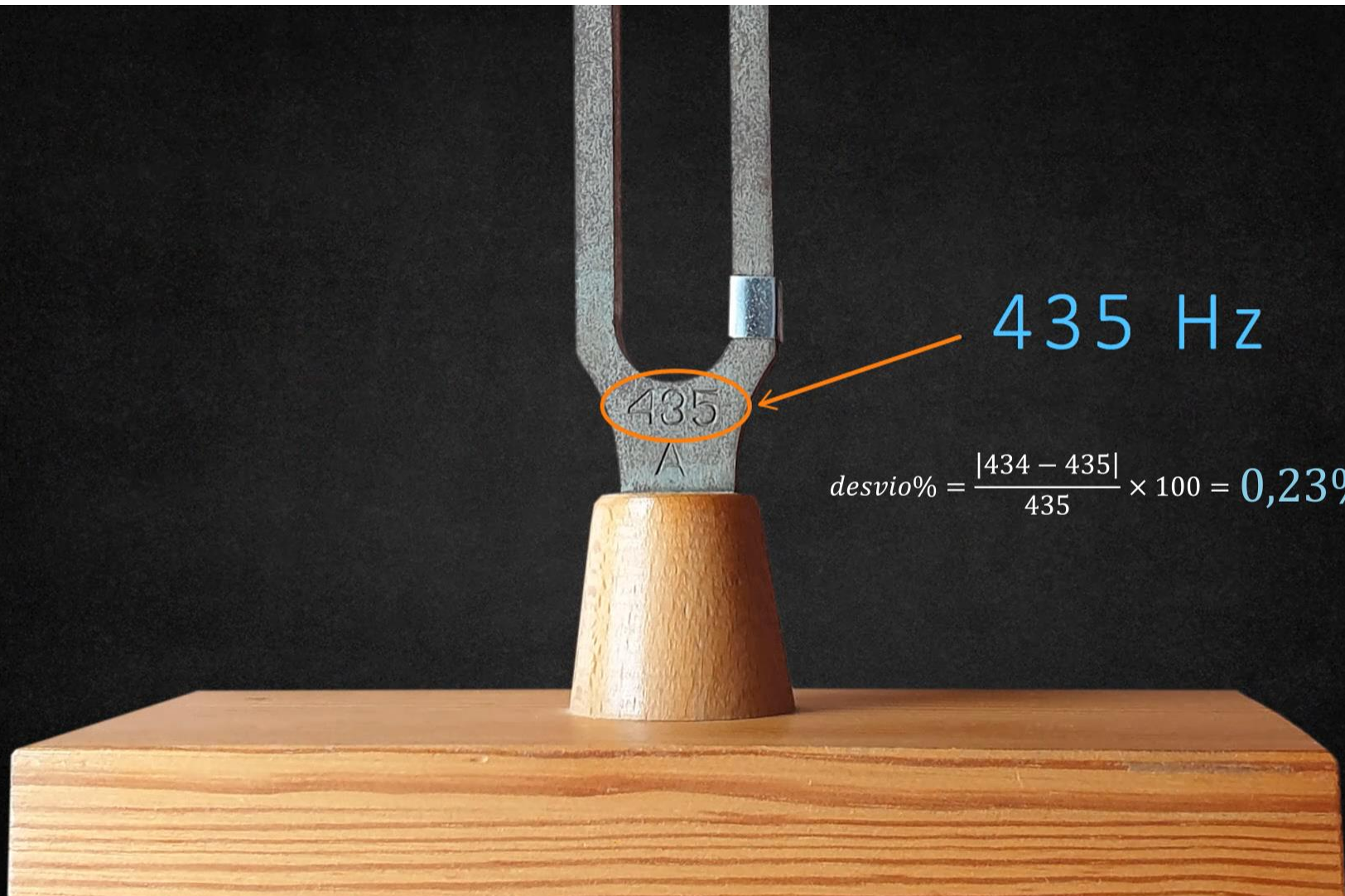
- Diferença: 6.916929 ms
- Inclinação: -5.7357916E-5 a.u. / ms

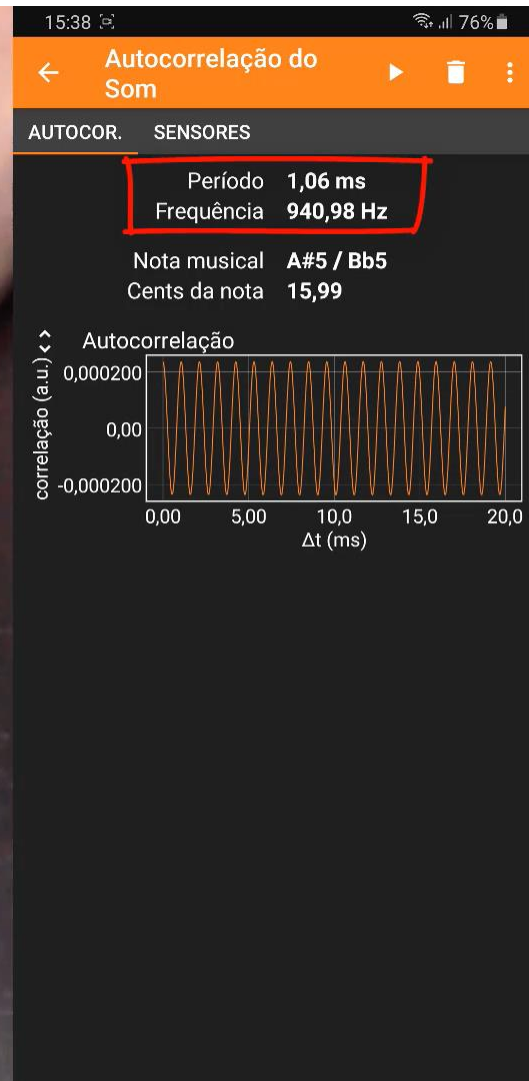
The app also displays the calculated period and frequency:

$$T = \frac{6,916929 \times 10^{-3}}{3} = 2,305643 \times 10^{-3} \text{ s}$$
$$f = \frac{1}{T} = \frac{1}{2,305643 \times 10^{-3}} = 433,7185 \text{ Hz}$$

Aproximadamente **434 Hz**







phyphox

O meu telemóvel
é um osciloscópio

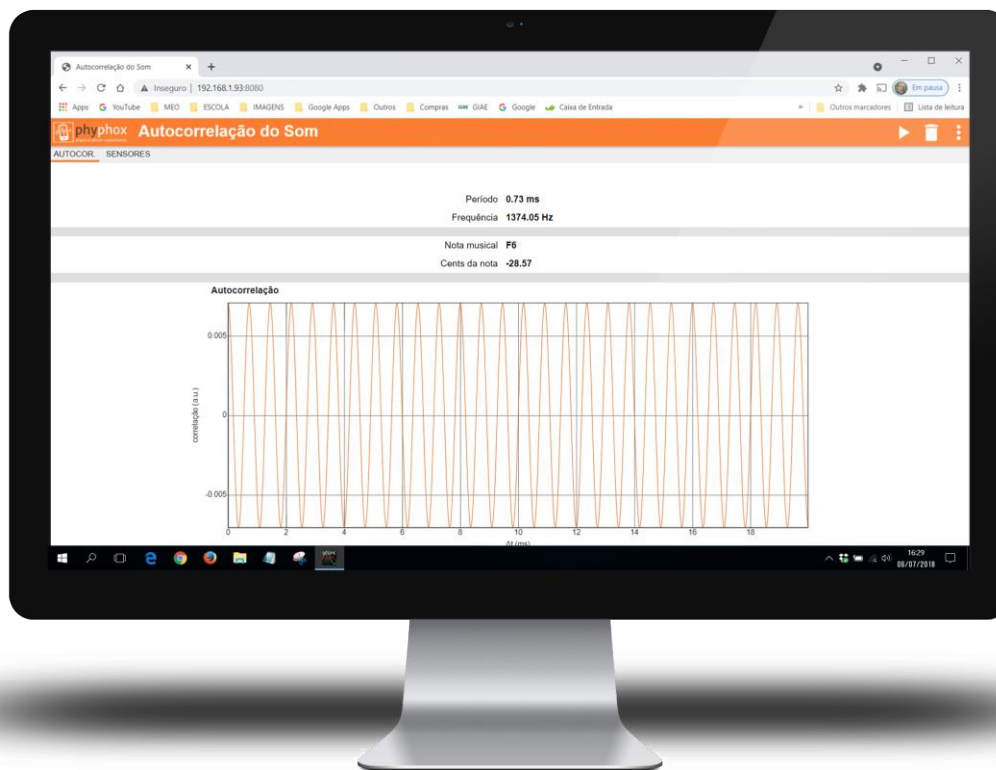
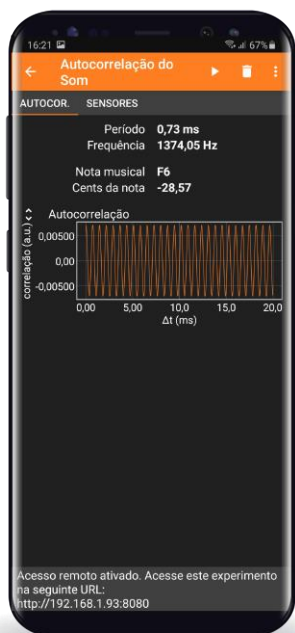
My smartphone
is an oscilloscope



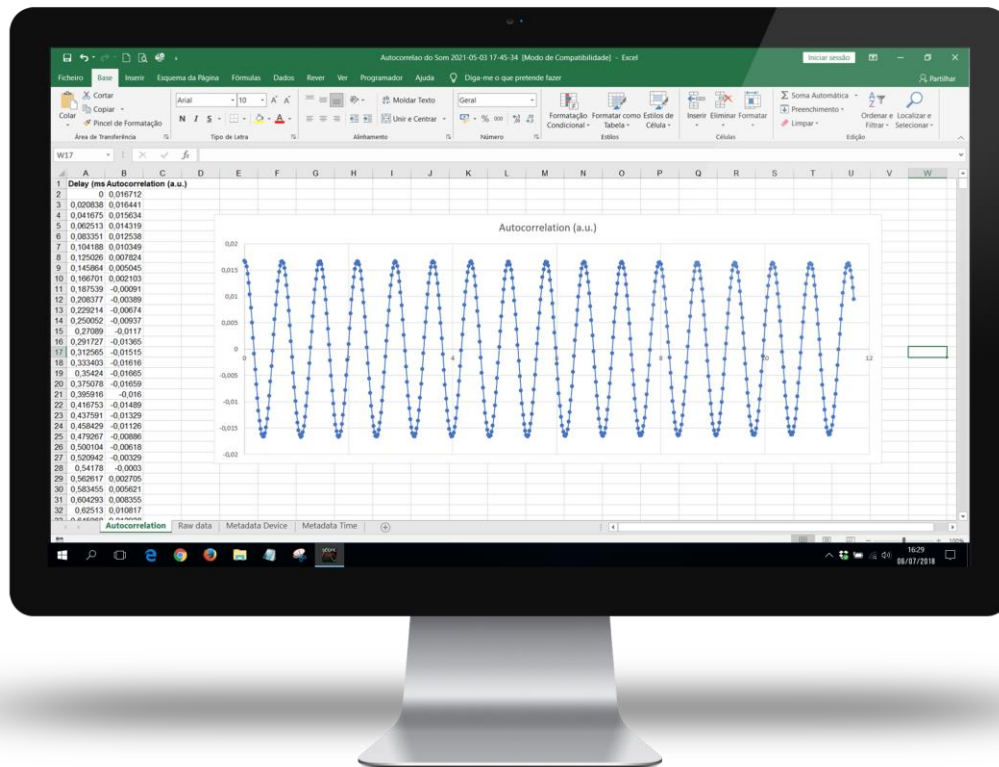
Demonstração

<https://youtu.be/IOGg059wUxc>

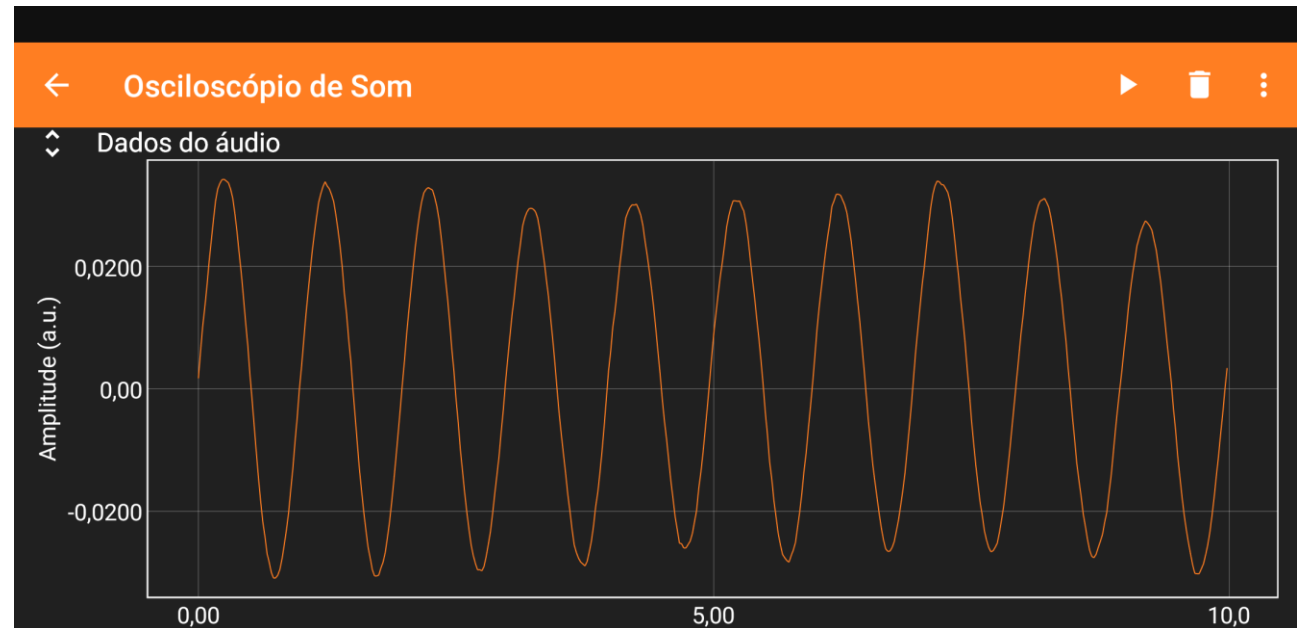
Acesso remoto



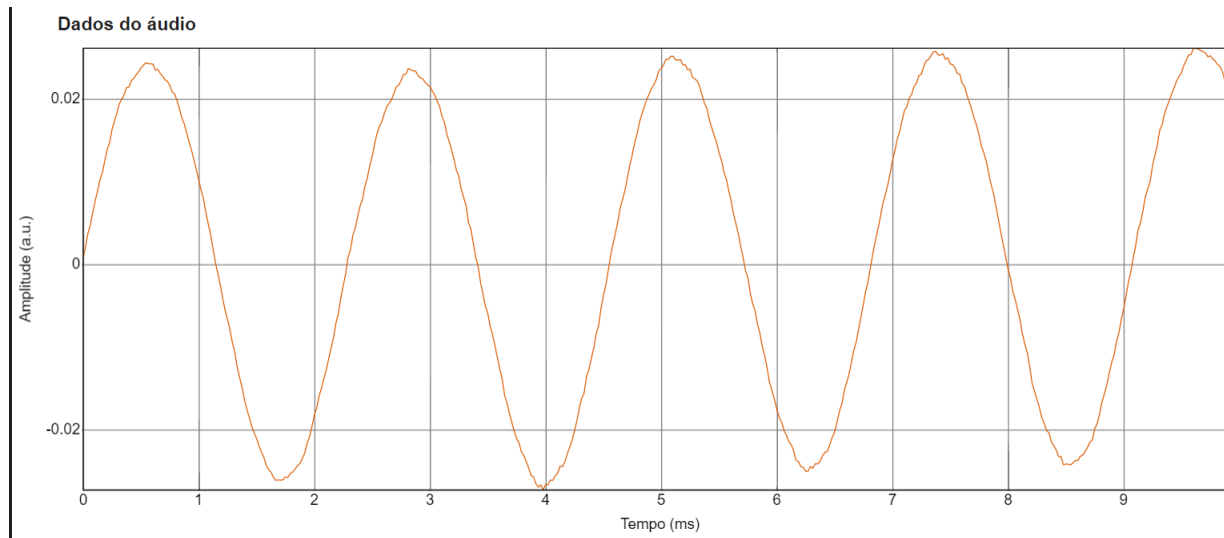
Exportar dados (Excel)



Compartilhar captura de tela



Guardar imagens para a elaboração de relatórios, testes e fichas





“Determinação do valor da aceleração gravítica com a aplicação *phyphox*”,
Gazeta de Física, Vol. 44, Nº 1, pp. 18-20, 2021.

<http://fisicanalixa.blogspot.com/2021/06/determinacao-do-valor-da-aceleracao.html>

Obrigado pela vossa presença.

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FIM



FÍSICA NA LIXA

<http://fisicanalixa.blogspot.com>