

SCIENCE IN YOUR HAND



phyphox
physical phone experiments

phyphox.org
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TODAY'S MENU

- ▶ How it started
- ▶ How it's going
- ▶ Our mission
- ▶ World Wide Smartphone Physics
- ▶ Bohr Challenge

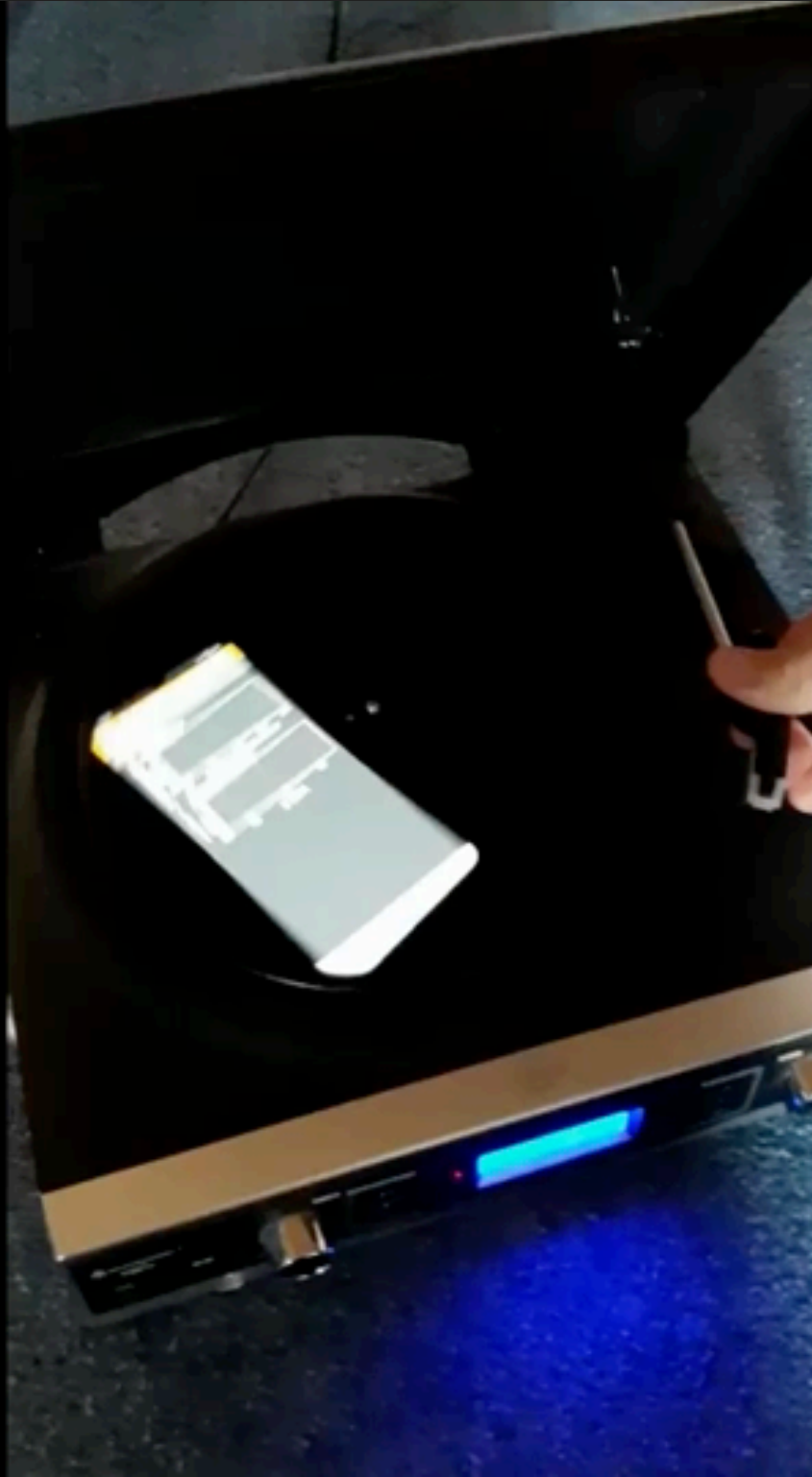


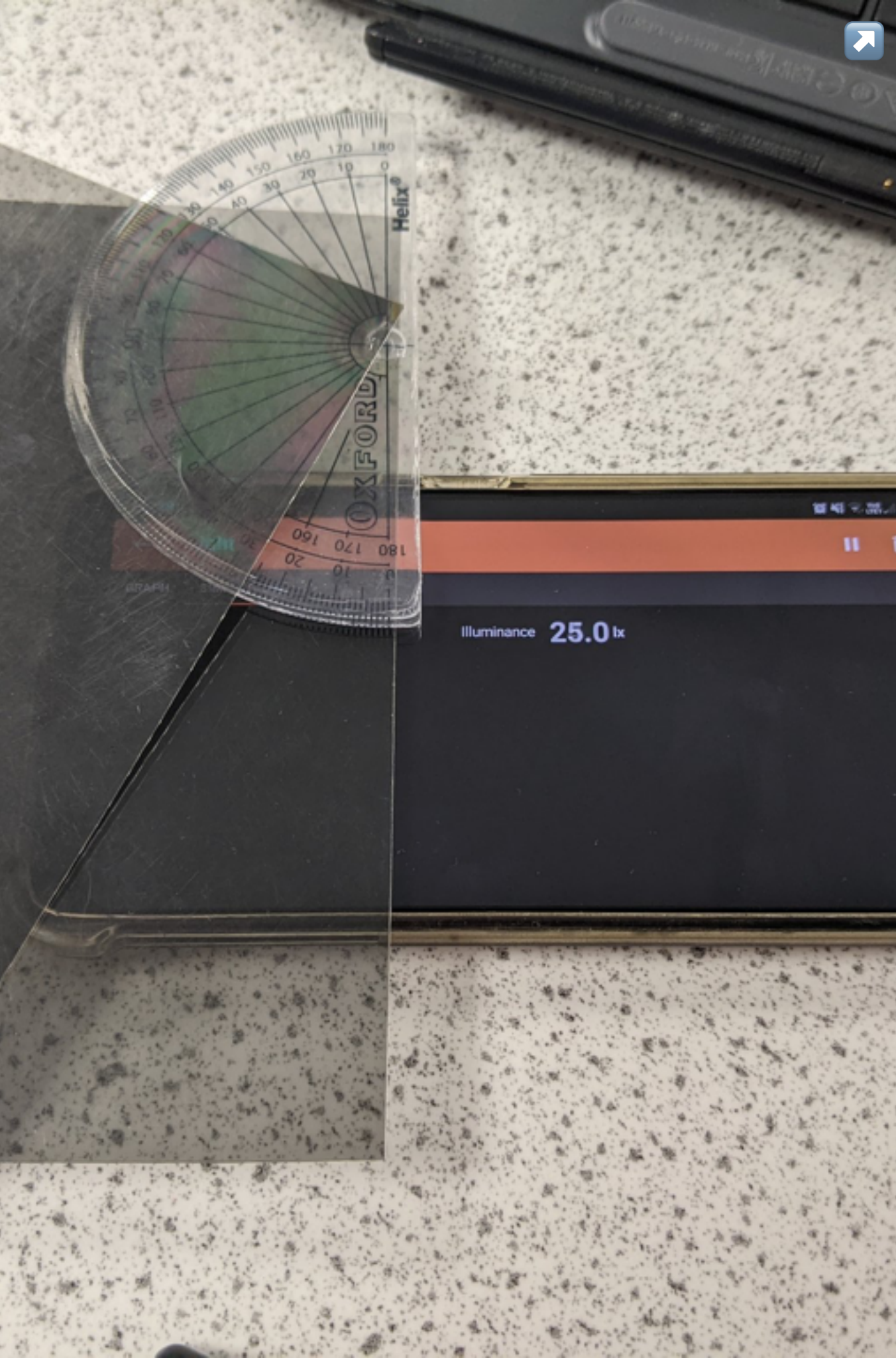
HOW IT STARTED



YouTube: Smartphone in a salad spinner

HOW IT'S GOING





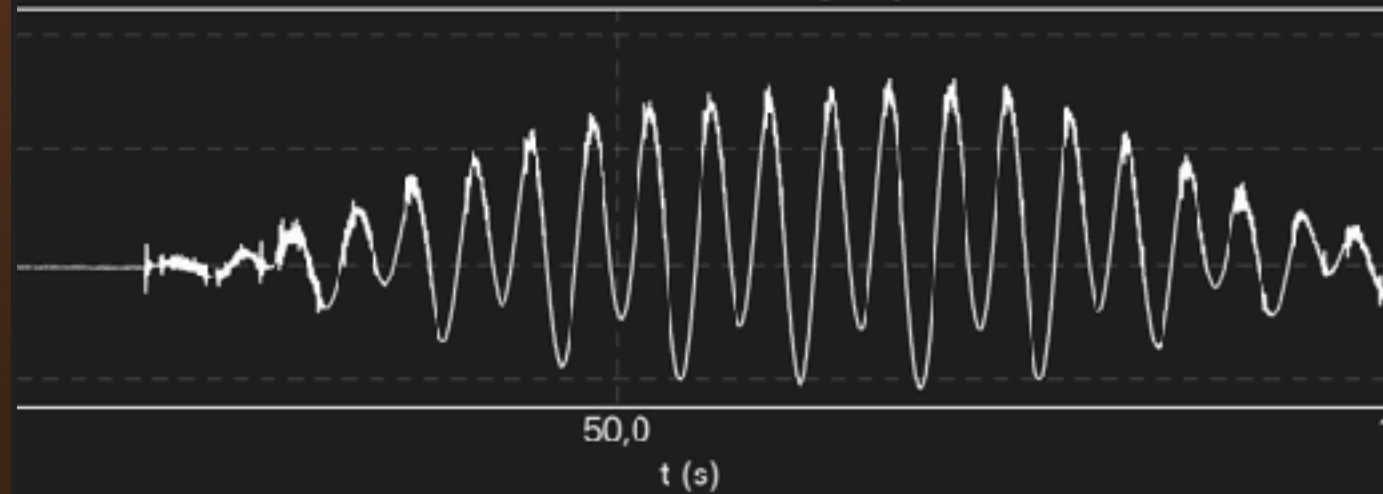


Beschleunigung mit g



Einfach

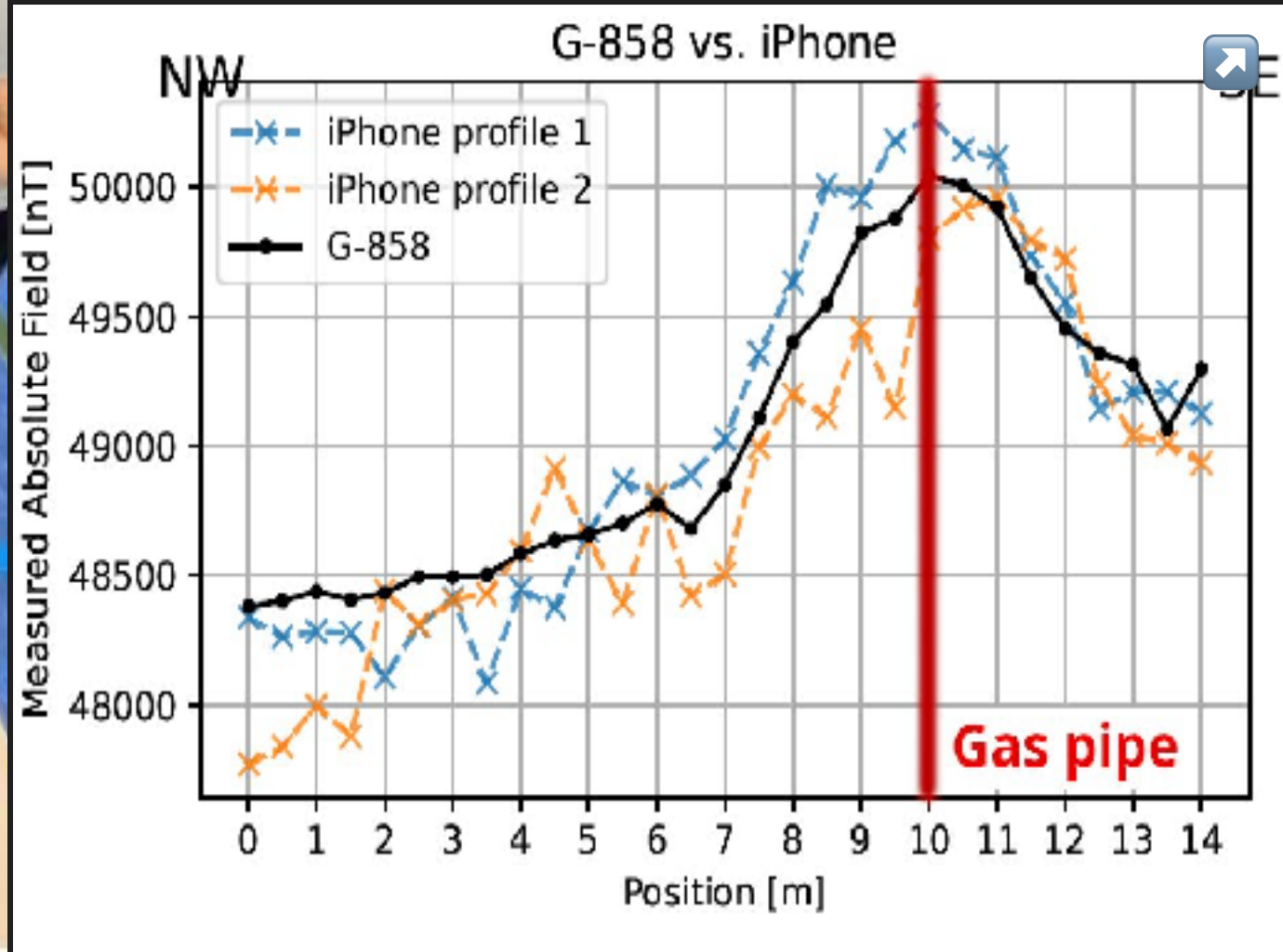
Absolute Beschleunigung



Ziehen/Zoom

Punkte wählen

... Mehr Werkzeuge

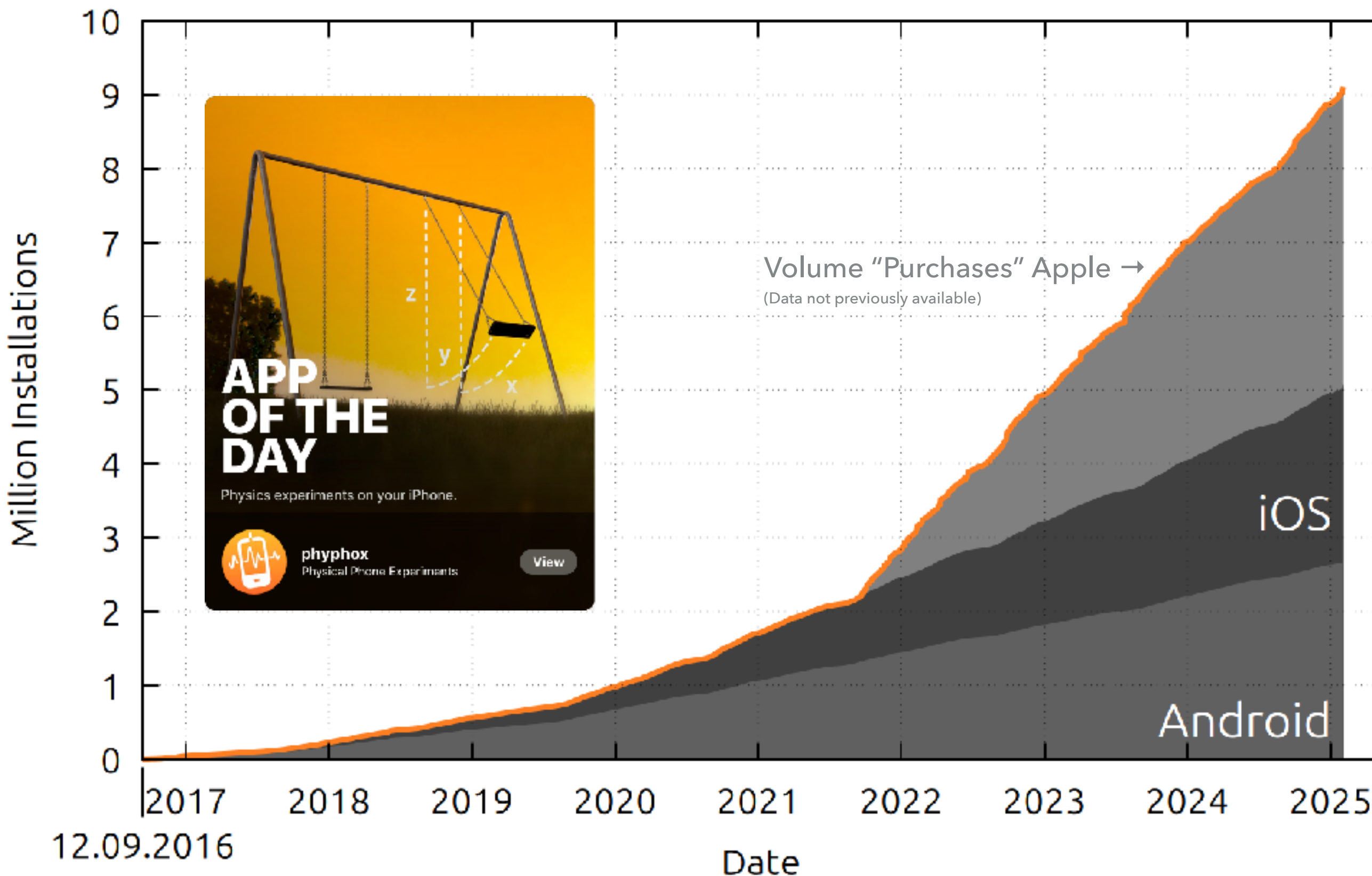




**FREELY AVAILABLE
INSTRUMENTS OF NEW QUALITY, SO
(STEM) EDUCATION FOR ALL WITH ALL
CAN SUCCEED**

phyphox project

HOW IT'S GOING



De la physique avec son smartphone



Physics with Phones

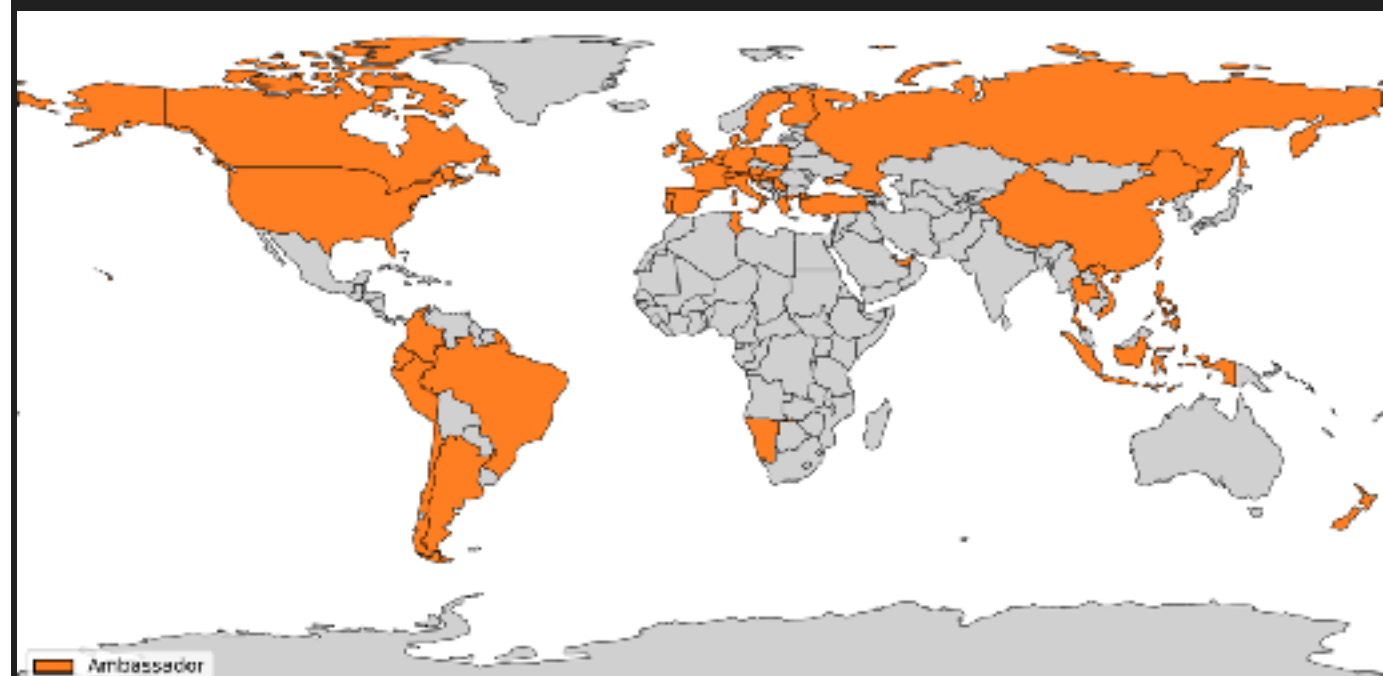
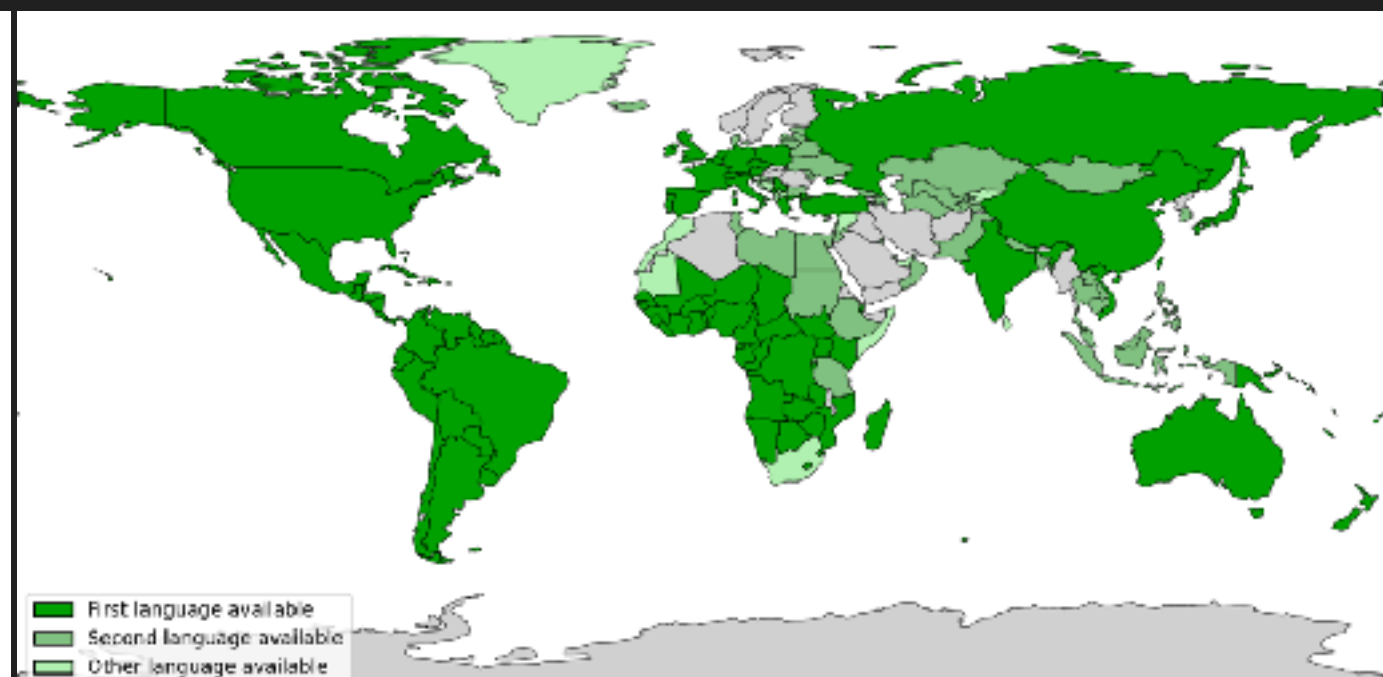


IOP Institute of Physics

Smartphone activities

Classroom physics (Issue 56)

"CPD"s of IOP Coaches



view New View

info text to display

separator

value New label a

graph New Graph

x axis a

y axis a

z axis a

edit New Edit a

depth GUI New GUI

image image.png

Button Blocks

button New Button

input

a

42

view Motion

graph Altitude (from barometer)

x axis p_time

y axis h

graph Vertical velocity (from altitude)

x axis v_time

y axis v

graph z acceleration (from accelerometer)

x axis a_time

y axis a

view Raw Data

graph Pressure

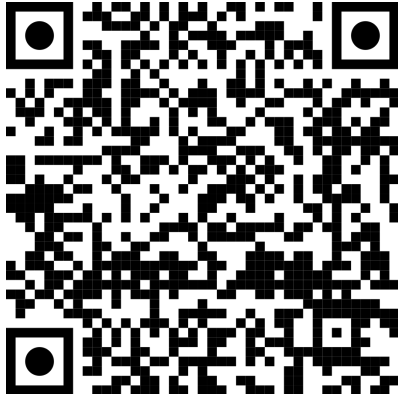
x axis p_time

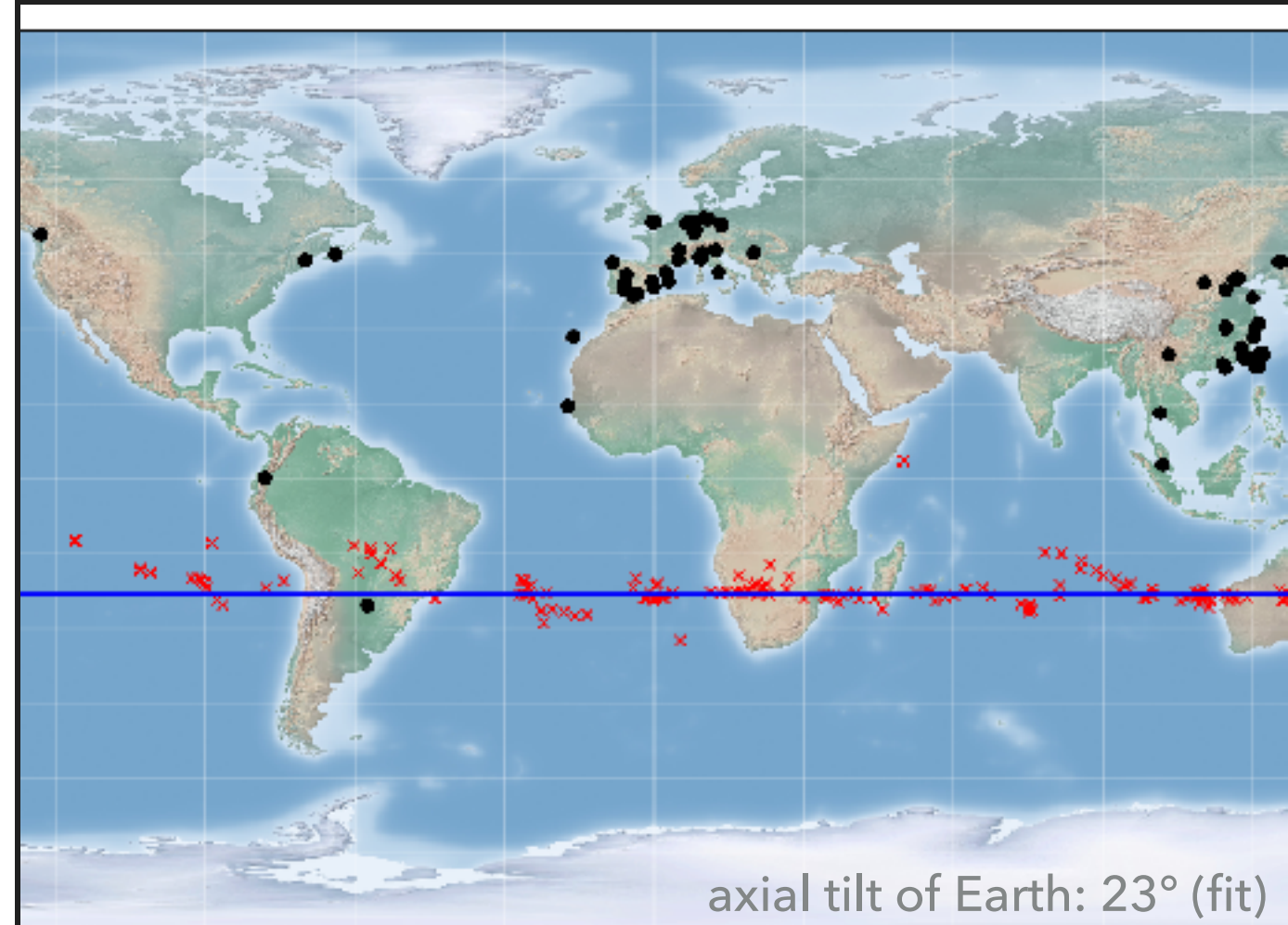
y axis pressure

graph Accelerometer z

x axis a_time

y axis a







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How many ways to measure the height of a Building with a Smartphone ? Here is our article with the 61 methods we carried out ! <https://arxiv.org/pdf/2010.11606> and you can find all of them reshaped for fun activities here : <http://hebergement.universite-paris-saclay.fr/supraconductivite/smartphone-physics-challenge/...> Coll @organtin @VillebonCharpak