



Raw Sensors



Acceleration (without g)

Get raw data from the so called linear accelero...



Acceleration with g

Get raw data from the accelerometer. This sen...



Gyroscope (rotation rate)

Get raw data from the gyroscope.



Light

Get raw data from the light sensor.



Location (GPS)

Get raw position data from satellite navigation.



Magnetometer

Get raw data from the magnetometer.



Pressure

Get raw data from the barometer.

Saved experiment states

Med

Medidas 27/07/23, 11:10

Inês Alves



Acoustics



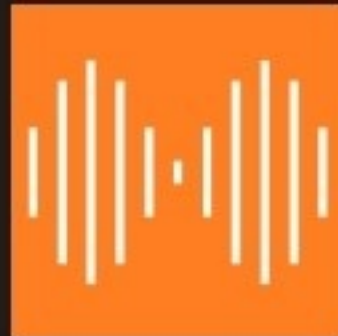
Audio Amplitude

Get the amplitude of sounds.



Audio Autocorrelation

Measure the frequency of a single tone.



Audio Scope

Show recorded audio data.



Audio Spectrum

Display the frequency spectrum of an au



Doppler effect

Detect small frequency shifts of the Doppler of

[CLICK HERE](#)





Raw Sensors



Acceleration (without g)
Get raw data from the so called linear accelero...



Acceleration with g
Get raw data from the accelerometer. This sen...



Gyroscope (rotation rate)
Get raw data from the gyroscope.



Light
Get raw data from the light sensor.



Location (GPS)
Get raw position data from satellite navigation.



Magnetometer
Get raw data from the magnetometer.

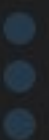


Pressure
Get raw data from the barometer.

Saved experiment states



Medidas 27/07/23, 11:10
Inês Alves



Add experiment from QR code



Acoustics



Audio Amplitude
Add experiment for Bluetooth device



Audio Autocorrelation
Measure the frequency of a single tone.

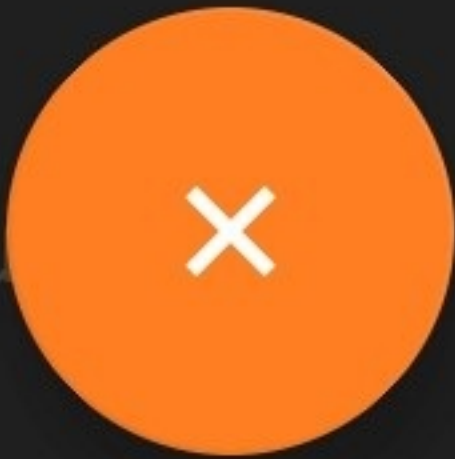


Audio Scope
Show recorded audio data.

Add simple experiment



Audio Spectrum
Display the frequency spectrum of an au



Doppler effect

Add experiments

colleagues, students and friends.

Title

Name

WRIGHT YOUR NAME AS TITLE

Sensor rate (in Hz, 0 = as fast as possible)

60

SET 60 AS SENSOR RATE

Active sensors



Accelerometer



Gyroscope



Humidity

TICK THE CHOOSSEN
SENSORS



Light



Linear Acceleration



Location



Magnetic Field



Pressure



Proximity



Temperature

CANCEL

OK



#movement pattern



ACCELEROMETER

GYROSCOPE

LINEAR ACCELE



Acceleration X

$a \text{ (m/s}^2\text{)}$

CLICK PLAY TO START RECORDING

$t \text{ (s)}$



Acceleration Y

$a \text{ (m/s}^2\text{)}$

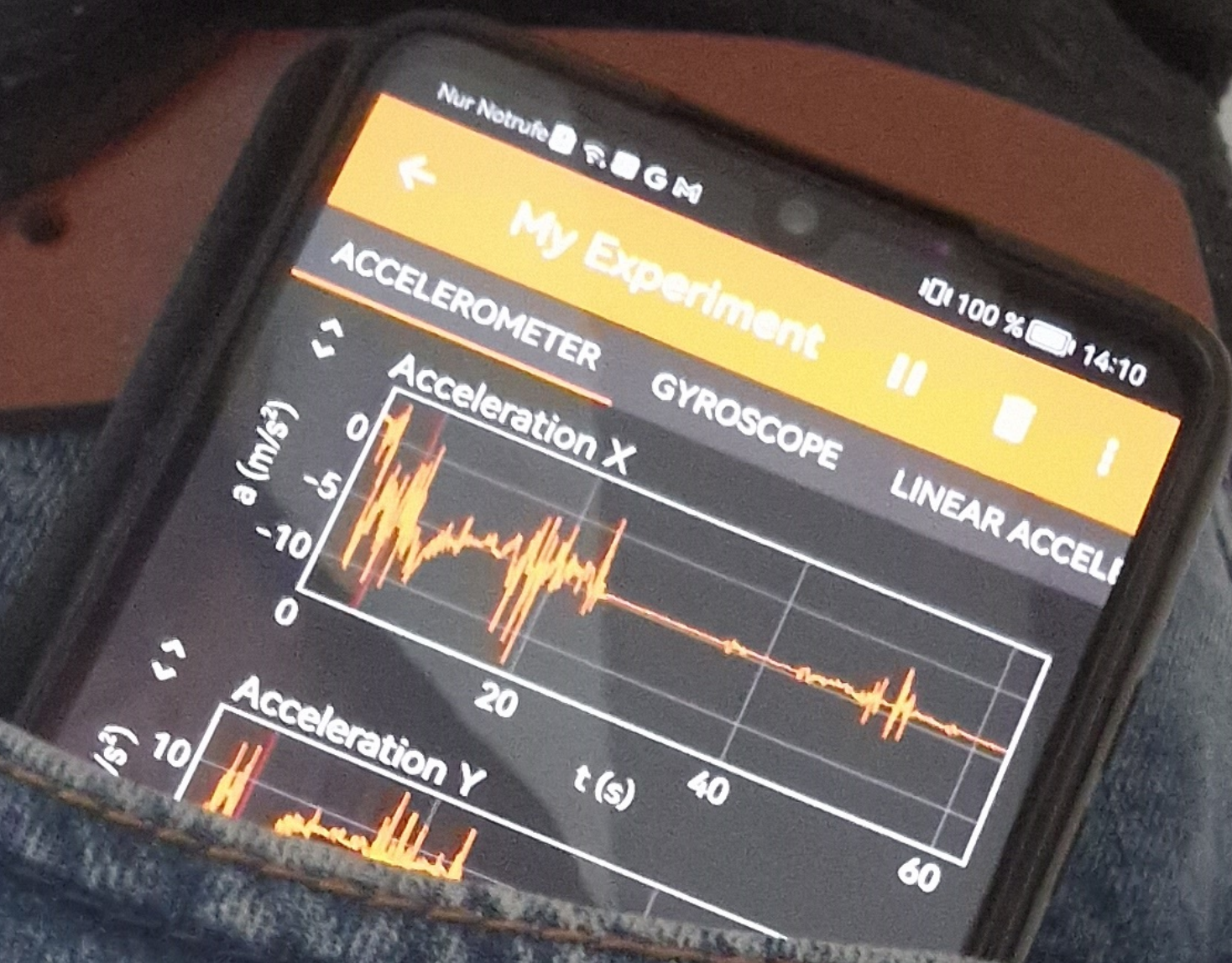
$t \text{ (s)}$



Acceleration Z

$a \text{ (m/s}^2\text{)}$

$t \text{ (s)}$



**PUT YOUR SMARTPHONE
WITH THE APP OPENED
AND VISIBLE IN YOUR
LEFT FRONT POCKET AND
START WALKING FOR 15
MIN ON AN FLAT AREA
IN THE PARK OR A TRAIL
WITHOUT STOPPING OR
TURNS**



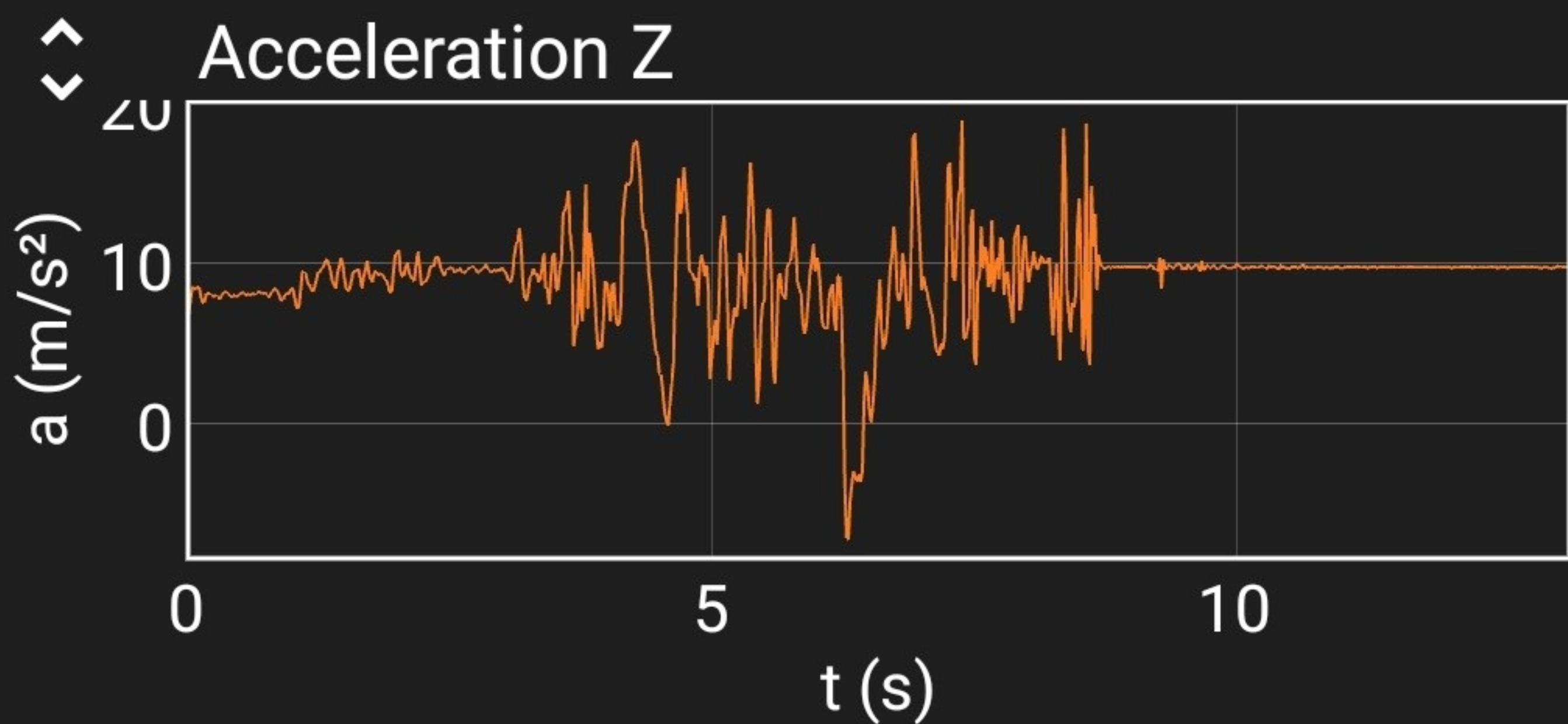
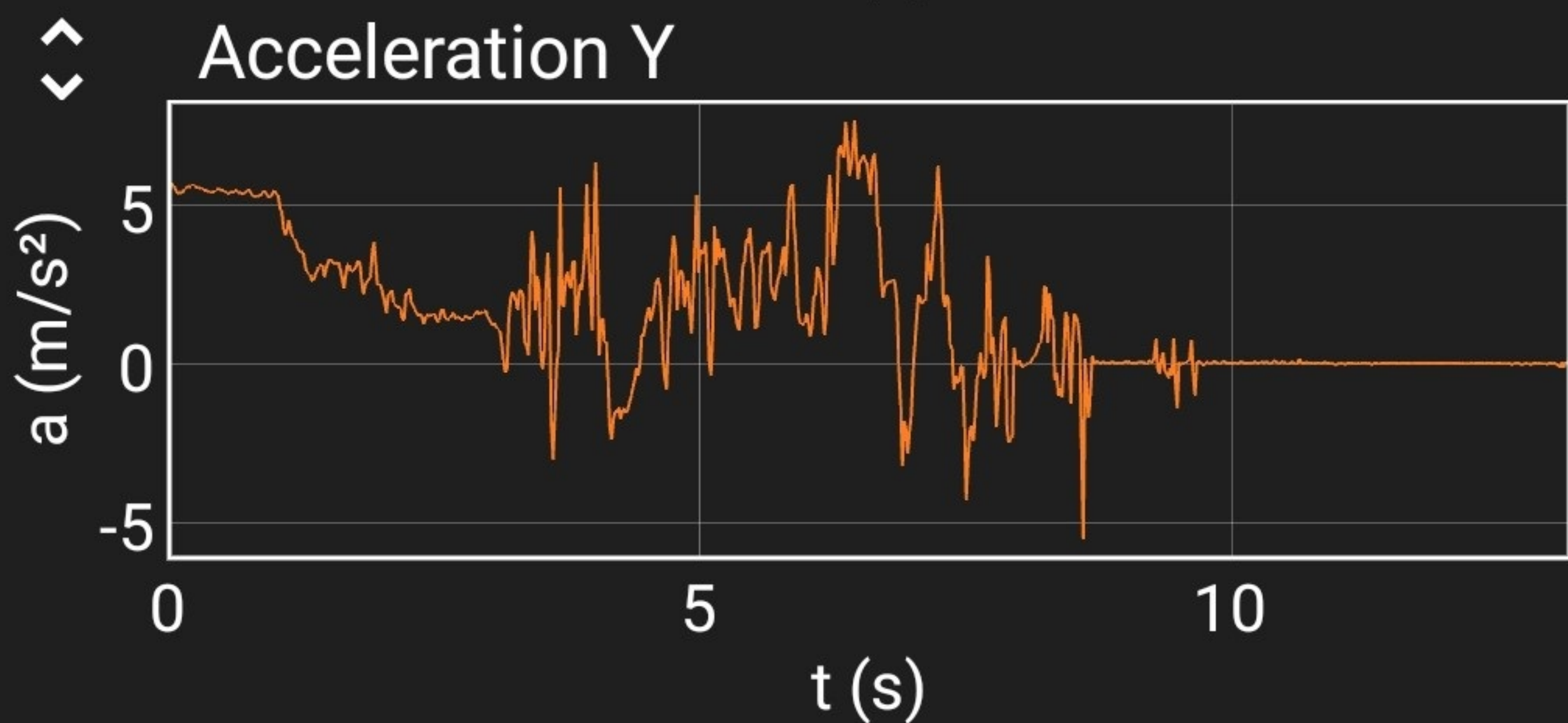
#movement
pattern



ACCELEROMETER

GYROSCOPE

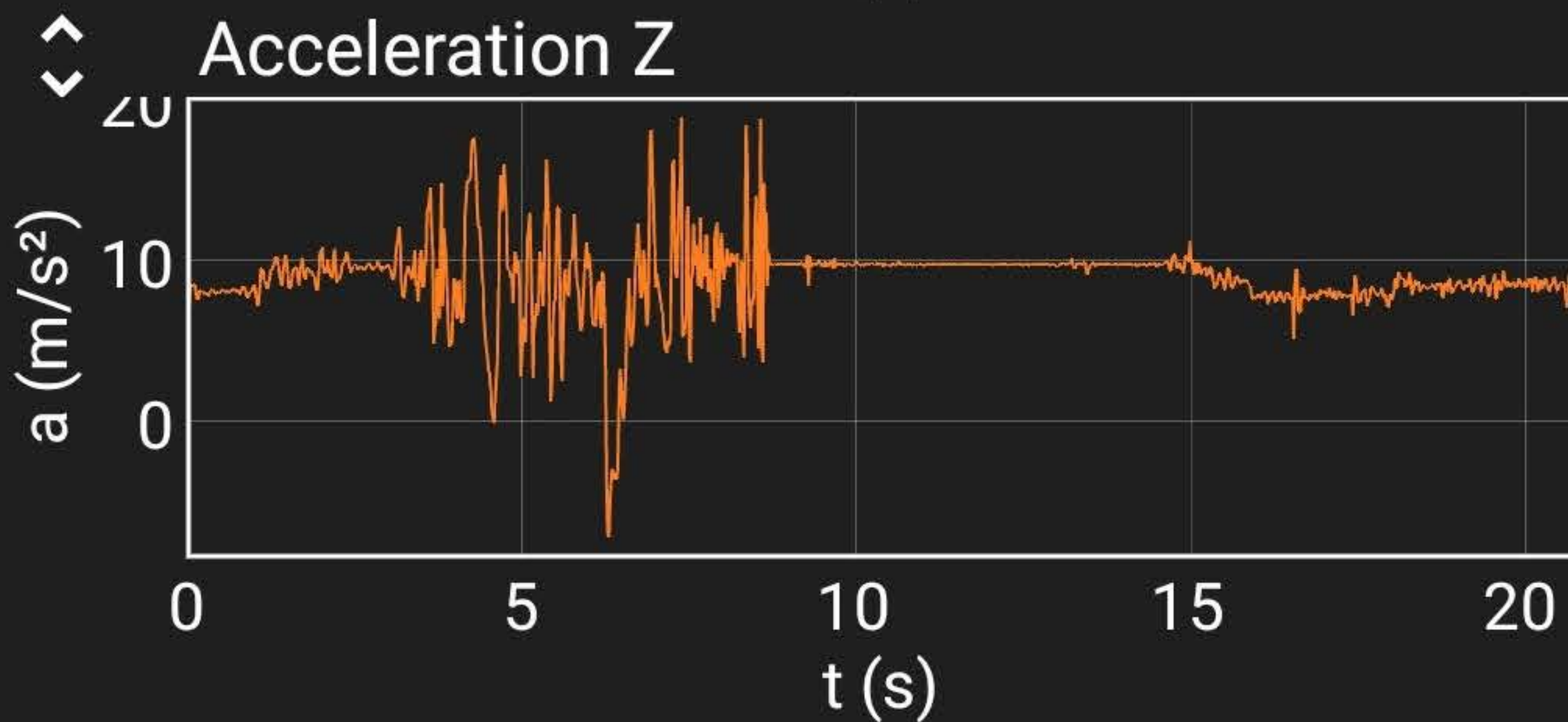
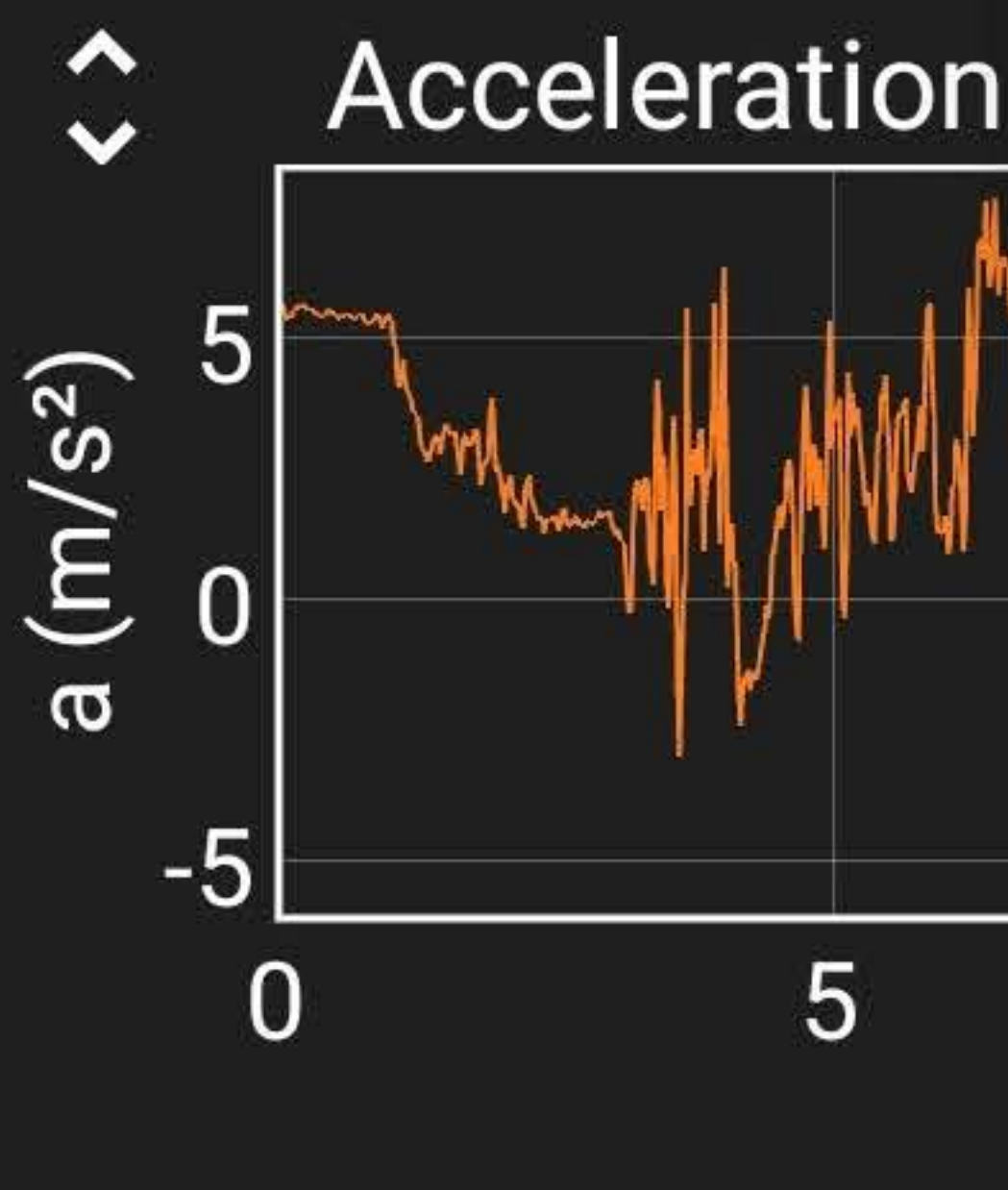
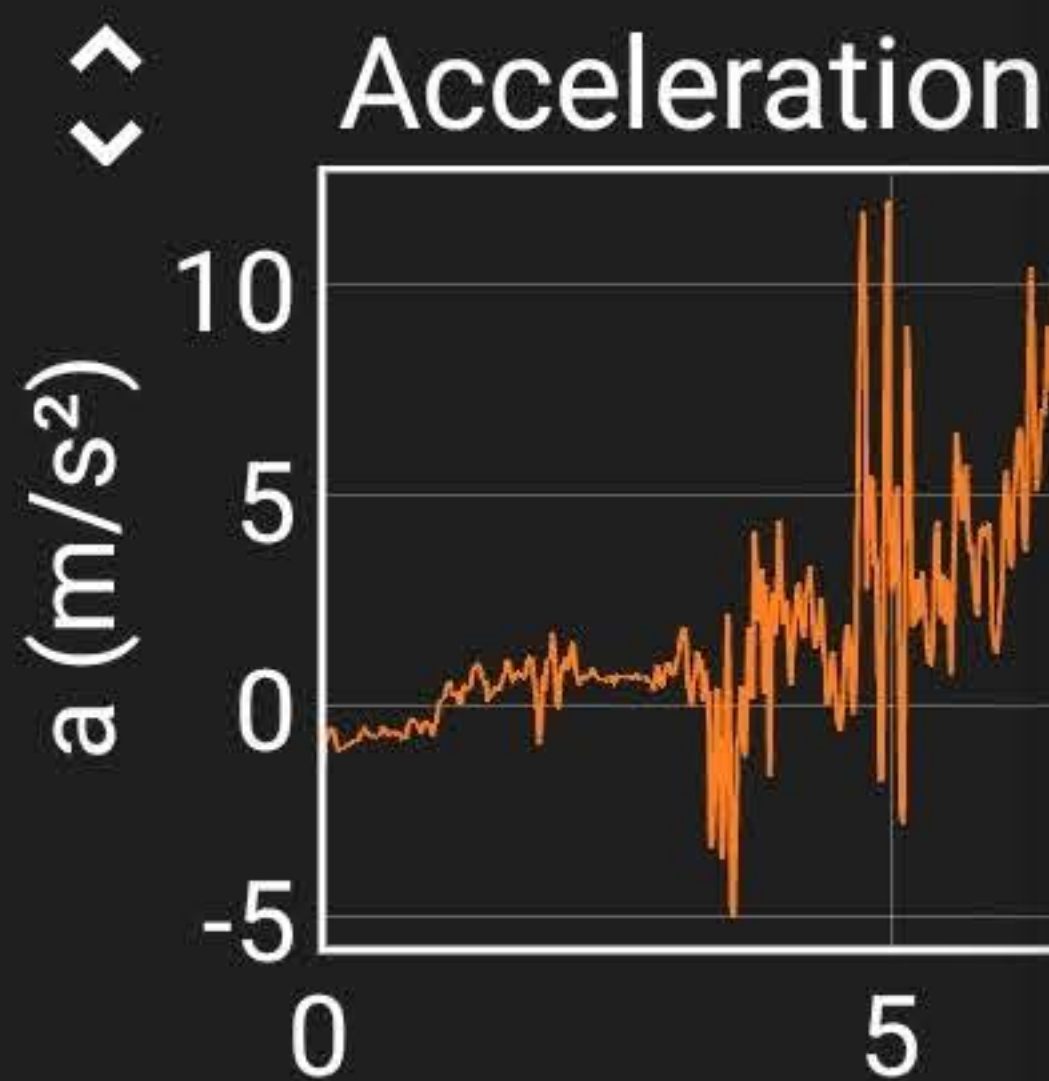
LINEAR ACCELERATION





#movement
pattern

ACCELEROMETER



Experiment info

CHOOSE EXPORT DATA

Export Data

Share screenshot

Timed run



Allow remote access



Save experiment state



#movement pattern



ACCELEROMETER

GYROSCOPE

LINEAR ACCELE



Acceleration X

10

$a \text{ (m/s}^2\text{)}$

Choose the data format.

☐ Excel

CHOOSE CSV AS FILE FORMAT

☒ CSV (Comma, decimal point)

☐ CSV (Tabulator, decimal point)

☐ CSV (Semicolon, decimal point)

☐ CSV (Tabulator, decimal comma)

☐ CSV (Semicolon, decimal comma)

CLICK OK TO SEND THE FILE

CANCEL

OK

$t \text{ (s)}$