

EXPERIMENTACIÓN EN FÍSICA. USO DEL SMARTPHONE

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ESO

Star Walk 2



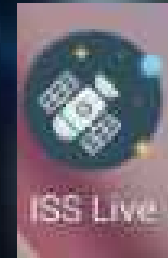
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Earth Now



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ISS Live

A screenshot of the ISS Live mobile application. The interface includes a title bar with "ISS Live" and "Camara 1 (HD)", a video player with a pause button, a status bar with "Día, próxima puesta de sol en 0.18.25", and a map showing the ISS location with technical data.

ISS Live
Camara 1 (HD)

Día, próxima puesta de sol en 0.18.25

latitud: 51.05
longitud: -112.45
Altitud: 411.15 km
velocidad: 27611.3 km/h

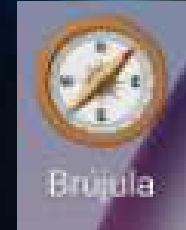
International Space Station

Estados Unidos

Google

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Brújula



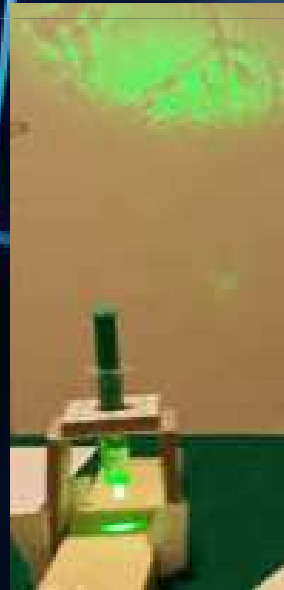
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Construcción de una brújula



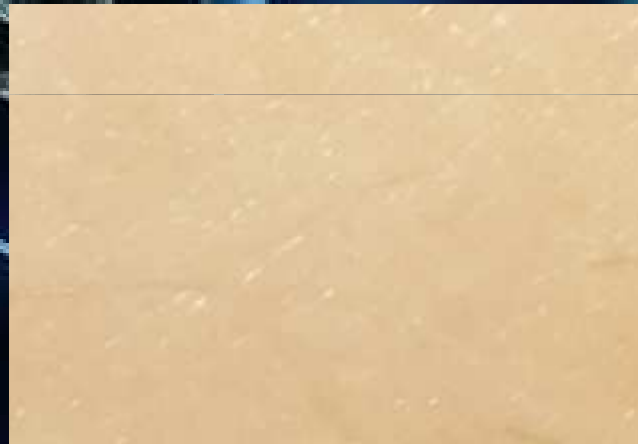
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Construcción de un microscopio



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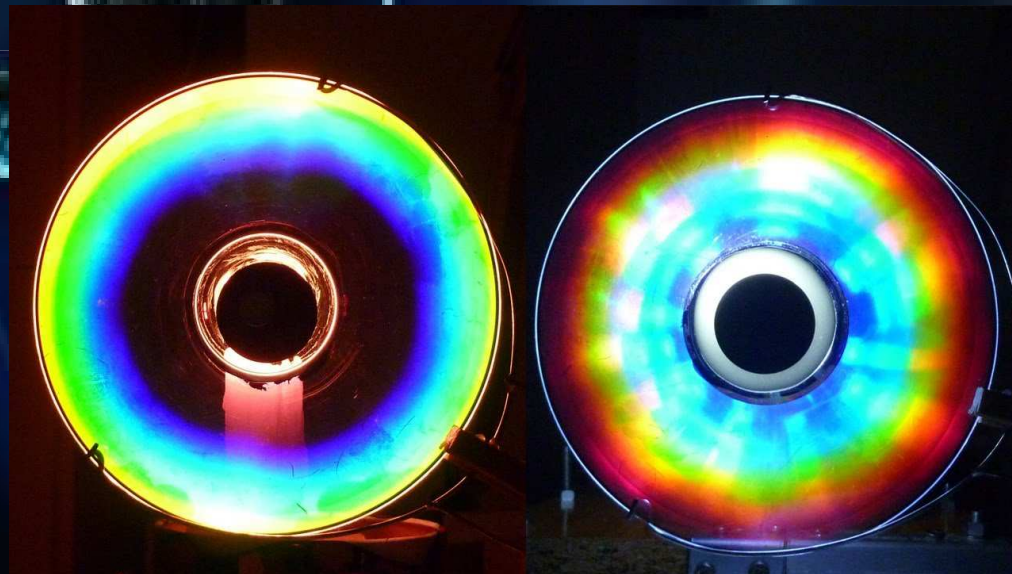
Microscopio



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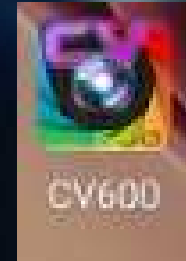
Espectrofotómetro

Visualizador del espectro de la luz con un CD



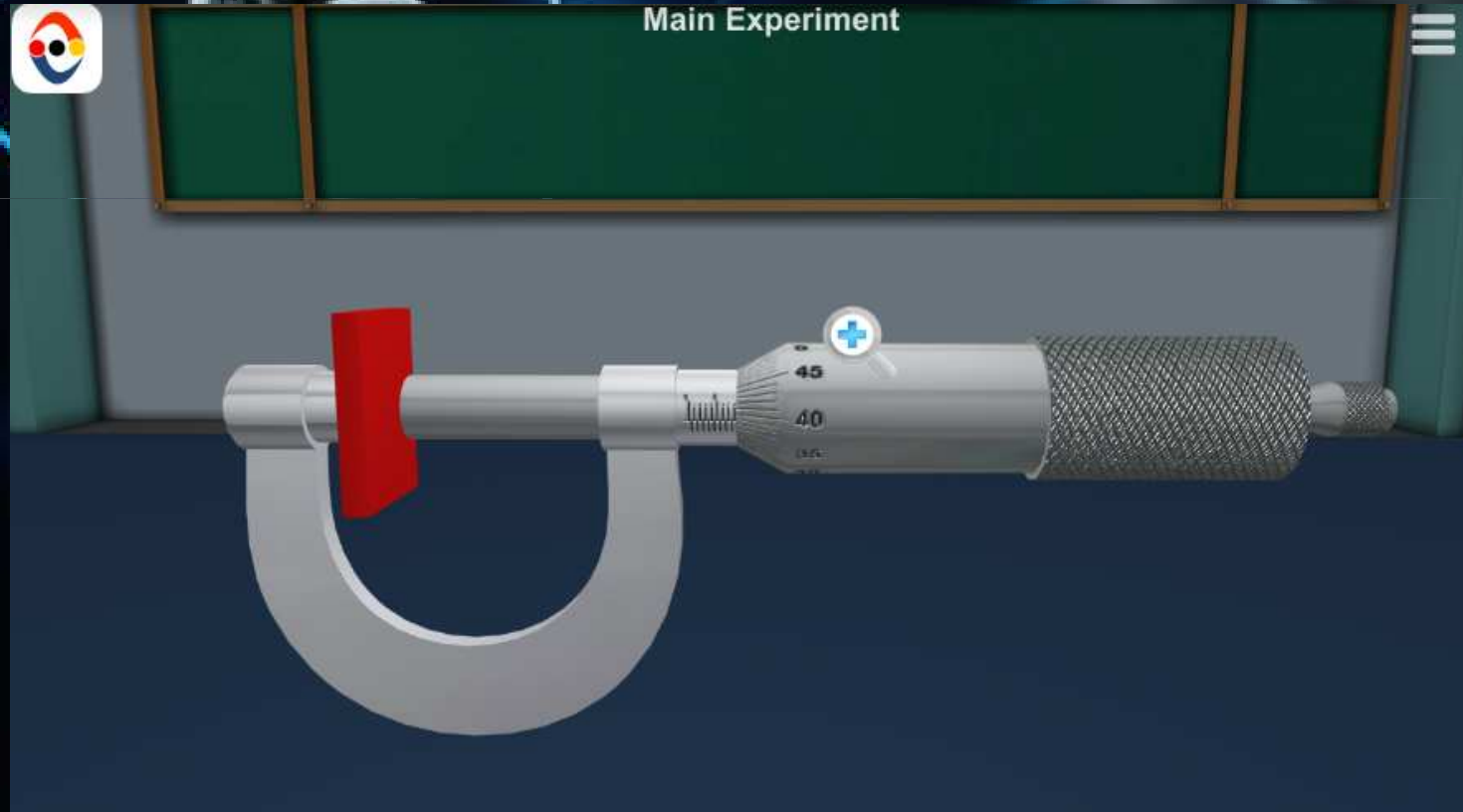
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CV600



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LabInApp



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Acelerómetro Rapidómetro Cámara



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Sonómetro



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Construcción de bombilla con mina de lapicero



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Vectores



←  Vector

Ingresar los valores y elegir una operación

$\vec{v}_1 = (\underline{0.0}, \underline{0.0}, \underline{0.0})$

Agregar un nuevo vector

$\vec{v}_1 + \vec{v}_2$ SUMA	$\vec{v}_1 - \vec{v}_2$ RESTA	$\vec{v}_1 \cdot \vec{v}_2$ PRODUCTO PUNTO
$\vec{v}_1 \times \vec{v}_2$ PRODUCTO CRUZ	$K \vec{v}$ PONDERACIÓN	$ \vec{v}_1 $ MÓDULO

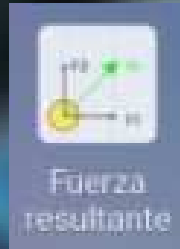
Resultado:

Se requiere Seleccione mínimo 2 vectores para la operación.

Se requiere Agregar a la lista

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Fuerza resultante



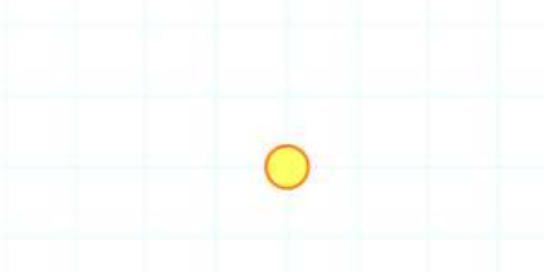
CALCULADORA DE FUERZAS RESULTANTES

Introduce valores para cada una de las fuerzas:

F1 Introducir

Módulo (N): | Borrarr

Ángulo (°): Calcular



50 N

Fuerza resultante:
Coord. cartesianas:
Coord. polares:

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Dinamómetro



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LabInApp



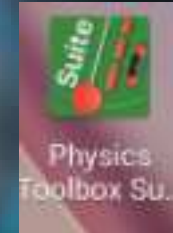
The screenshot shows the "Main Experiment" interface of the LabInApp. The central part of the screen displays a 3D simulation of a pendulum experiment in a virtual laboratory setting. The interface includes a top navigation bar with the app logo and a hamburger menu icon. On the right side, there is a control panel with the following elements:

- Maximum Swings:** 10
- Measurement Selection:** Two radio buttons are present. "Tangential Acceleration" is unselected, and "Tangential Velocity" is selected.
- Length of Thread:** 0.55 m, with a slider below it.
- Radius of Bob:** 0.05 m
- Buttons:** "Additional Activities", "Demo Video", "Experiment Details", and "Reset".

At the bottom left, a timer shows 3.41 s. At the bottom center, there are four playback control buttons: back, pause, play, and forward.

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Estroboscópio



Estrobo...

Frecuencia	1.00	Hz
	1000	ms

Si el flash de la cámara no está funcionando pulse el botón Strobe Beta.

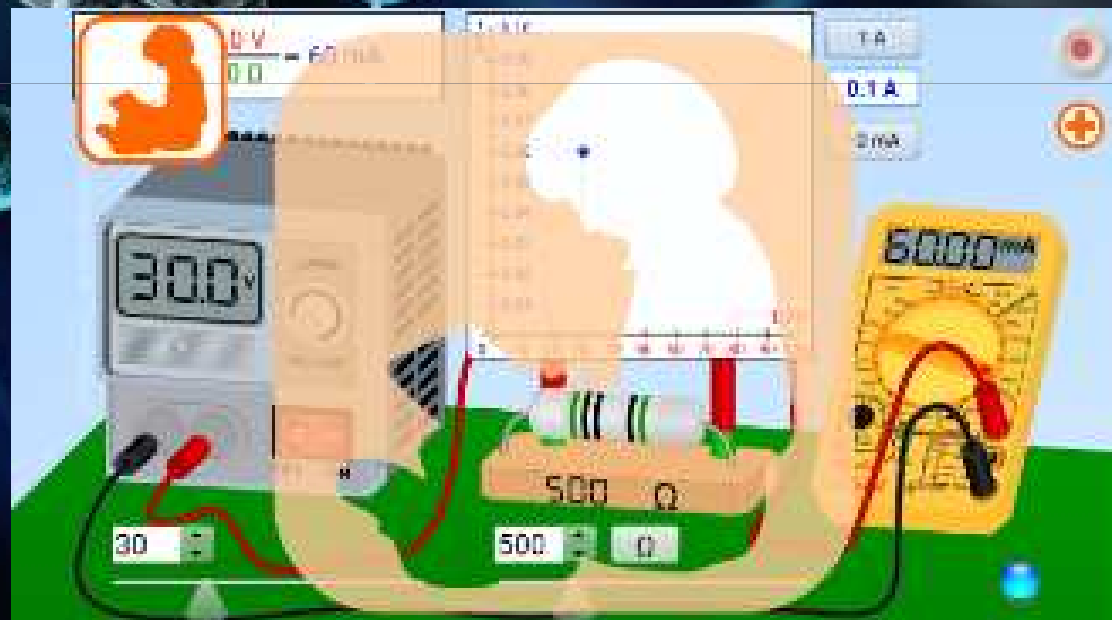
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Giroscopio



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Física en la escuela



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Construcción de un cohete



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Ray Optics



The screenshot displays the Ray Optics software interface. At the top, there is a toolbar with icons for a lens, a document, a question mark, and a menu. Below the toolbar are four buttons: "Lens", "Mirror", "Slab", and "Object". The main workspace shows a ray diagram on a dark background. A vertical cyan line represents the lens. A horizontal red line represents the optical axis. A yellow horizontal line represents the object, and a green horizontal line represents the image. A white ray is shown passing through the lens. The cursor is positioned at (2509.0, -550.0). The object is located at (x = 1640.0, height = 180.0) and the image is located at (x = 677.59, height = -9.32).

Cursor (2509.0, -550.0)

Object (x = 1640.0 , height = 180.0)

Image (x = 677.59 , height = -9.32)

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Amperímetro



BASIC ADVANCED POWER PROFILE

Sufficient Electric Current

Discharging
-974 mA

HELP?

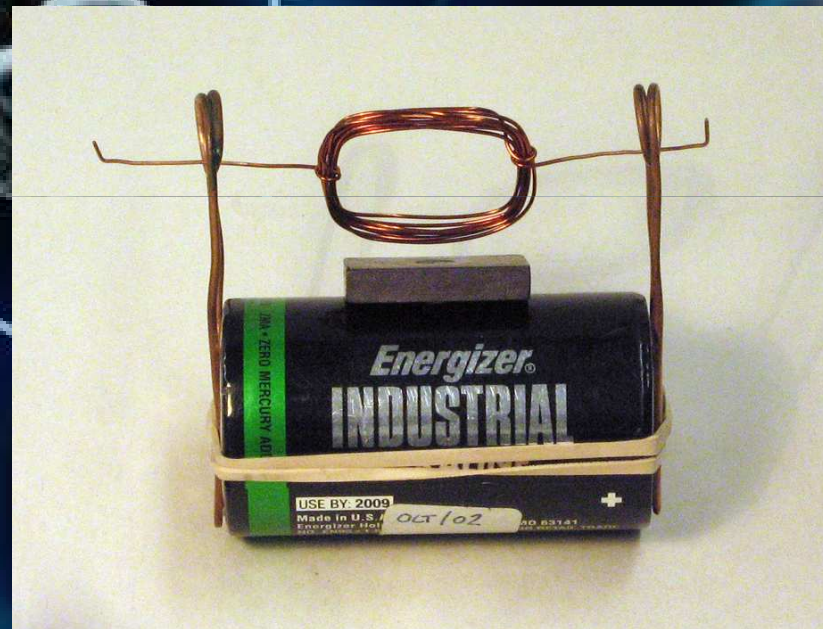
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Gausómetro



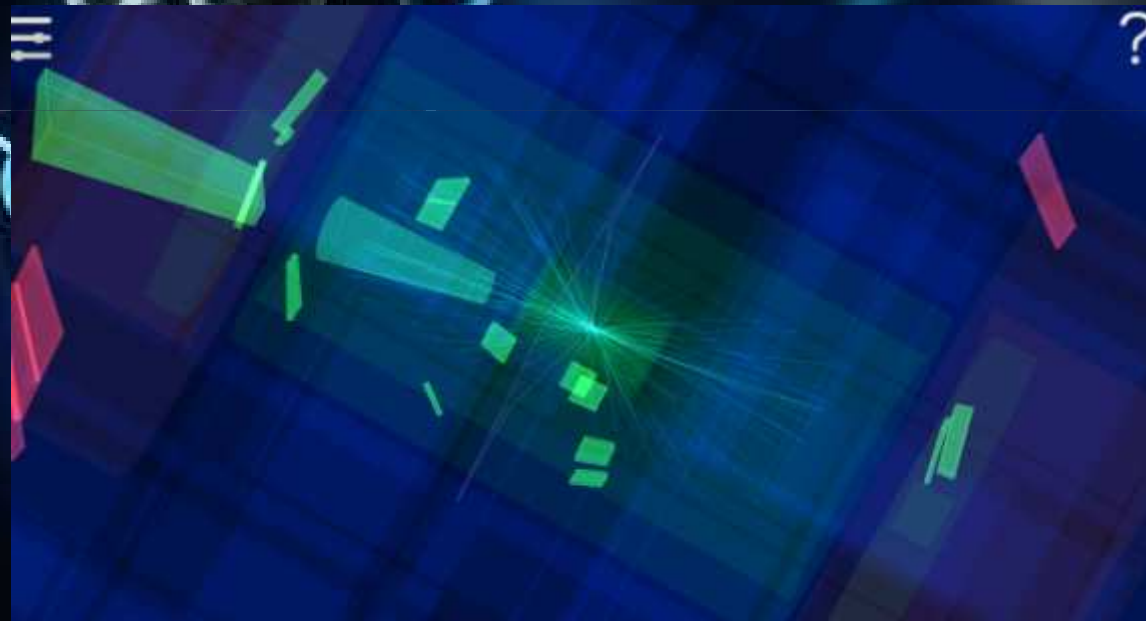
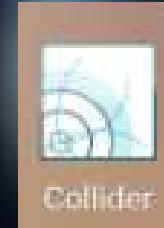
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Demostrar inducción electromagnética



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Collider



Gracias por su atención

