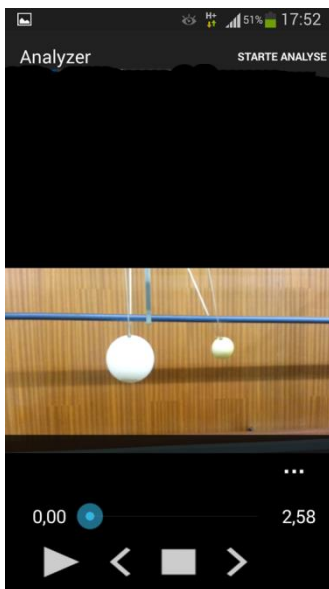




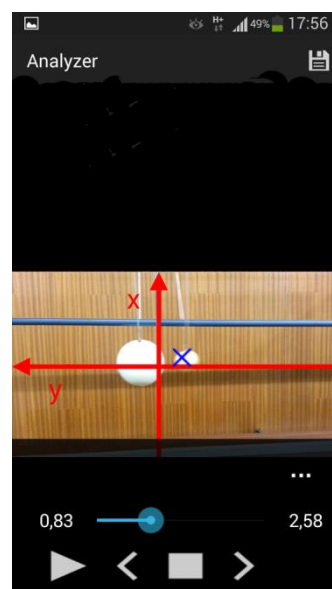
## VidAnalysis

The first video analysis app for Android on Smartphones

Following a series of work with video analysis in several grades, the student *Richard Sadek* developed this app as part of his school leaving examinations. It is programmed for the use in physics lessons: movements are filmed and analysed on the smartphone directly, the diagrams can be modeled by mathematical functions. The app is available in the Google Play store and mentioned in the iStage2 brochure.



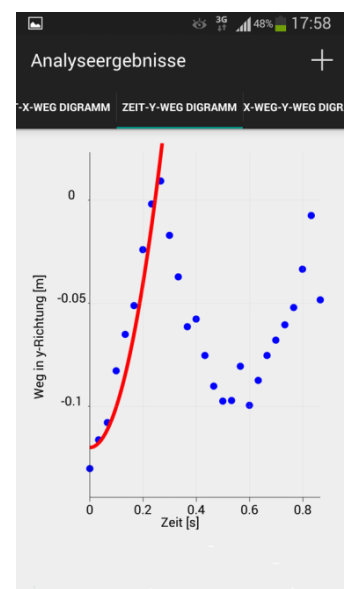
Film or import a video



Calibration, coordinates

t [s]	x-s [m]	y-s [m]	$\varnothing$
0,000	0,025	-0,130	
0,033	0,026	-0,116	0,0
0,066	0,021	-0,108	-0,
0,099	0,017	-0,083	-0,
0,133	0,015	-0,065	-0,
0,166	0,014	-0,051	-0,
0,199	0,022	-0,024	0,2
0,232	0,009	-0,002	-0,

data table



diagram, function

### What for?

We are able to film movements, to analyse them with a resolution of 30 per second and get motion diagrams. All of that on one device – the students smartphone.

- This method can foster a better understanding of describing movements in the way of physics.
- Students learn to use their mobile device in a new way.

So we realize a kind of scientific approach: Beginning with daily motions, catching and analysing the data, finally modelizing them with mathematical functions.

That's like science works!



Website



Download

