

## The University of Granada helps determining if neutrinos are faster than light

LOCATION: Granada

DURATION: 1'51"

**SUMMARY:** Researchers of the University of Granada participate in the new measurement that is being performed at the Italian lab Grand Sasso to check if neutrinos are really faster than light. They do it with the development of one of the pieces that will help measuring with a precision of a nanosecond the speed of the beam emitted by the European Large Hadron Collider.

### VTR:

Time was an obsession for Alice's white rabbit and time also shook Einstein's theories when last year a particle faster than light was said to have been discovered.

**JAVIER DÍAZ**  
Researcher of the University  
of Granada

*"Current theories indicate that no particle can travel faster than light and that's why those measurements that had been done before which indicated that neutrinos arrived 60 nanoseconds before light were so controversial."*

This measurement, that turned up to be wrong, was made in an Italian laboratory at Grand Sasso, and it is there where new experiments are being performed using a new technology called White Rabbit, in honour of Alice's rabbit and in whose development have participated researchers of the University of Granada..

**EDUARDO ROS**  
Researcher of the University  
of Granada

*"And that way contrast or refute previous experiments."*

What it is specifically developed here is one of the pieces and its programming to become part of the Large Hadron Collider, the biggest particle accelerator in the world considered as the God's Machine because the origin of the Universe can be recreated with it. It is in Switzerland, at the Cern, the European Lab for Particle Physics.

**JAVIER DÍAZ**  
Researcher of the University  
of Granada

*"A particles beam is emitted at CERN and is detected 730 kilometres away. The trip takes 2,4 milliseconds. The idea is detecting the lapse of time as precisely as possible. With this type of equipment we can measure it with the precision of a nanosecond and they are also automatically configured."*

This is important because it was precisely a human mistake what tried to contradict Einstein, originating one of the biggest controversies of science in recent history. By the way, the manufacturing of this piece will also be made in Granada by the spin off enterprise Seven Solutions.

For more information or support please call +34 647 310 157 or email [info@andalusianstories.com](mailto:info@andalusianstories.com)