

Community of
European
Solar
Radio
Astronomers

Radio
astronomical
tools for
investigating the
solar
atmosphere and
Sun-Earth
relationships



CESRA 2010

June 15-19, 2010

La-Roche-en-Ardenne, Belgium

<http://sidc.be/CESRA2010>



Program committee:

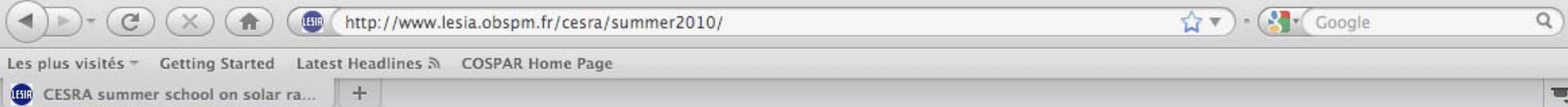
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Energy storage and release through the solar activity cycle - models meet radio observations





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CESRA summer school on solar radio physics 2010

CESRA, the Community of European Solar Radio Astronomers, organises a summer school on solar radio physics and its role in the investigation of the solar atmosphere and its relations with the Heliosphere at the

Nancay Radio Observatory (France), on 20-24 September 2010

Radio astronomy is for several reasons an important element of contemporary solar and heliospheric physics:

- Radio astronomy provides key measurements of density, temperature and magnetic field in the solar atmosphere.
- Transient radio emissions are generated by non thermal electron populations and therefore become sensitive tracers of the non-equilibrium evolution of the coronal plasma.
- Radio emission reveals large-scale disturbances of the corona - shock waves and mass ejections - that are a key element of interactions with the Heliosphere.

For these reasons radio astronomy contributes prominently to contemporary research around the major space programmes (Yohkoh, SoHO, STEREO, Hinode, SDO...) and will continue to do so in the future (Solar Orbiter, Solar Probe...). It also plays a role in space weather applications. There is a broad and valuable set of spectrographic and imaging instruments in the world, and new tools such as LOFAR and the Chinese Radioheliograph, will become available in the near future.

This school is the first since long time dedicated to radio investigations of the solar atmosphere. It aims at making graduate students and young researchers from a broad field of scientific interests familiar with these investigations and their basic tools. The school will consist in lectures by experts in the field and of practical work on the application and data analysis. Students will also have the opportunity to present their research interests and activities and to discuss them in an informal atmosphere.

The school is supported by the European Community through the [RadioNet project](#), by the [Observatoire de Paris](#), and the [Observatoire des Sciences de l'Univers en région Centre](#).

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