

Name of research institute or organization:

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**Physikalisches Institut, Universität Bern**

Title of project:

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SONTEL - Solar Neutron Telescope for the identification and the study of high-energy neutrons produced in energetic eruptions at the Sun

Project leader and team:

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Dr. Rolf Bütikofer

Project description:

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The solar neutron telescope (SONTEL) at Gornergrat, Switzerland, has been in continuous operation since 1998 as the European cornerstone of a worldwide network for the study of high-energy neutrons produced in energetic processes at the Sun. The network consists of seven solar neutron telescopes that are located at high altitudes and at low to mid latitudes (short path through atmosphere) as well as at different longitudes.

SONTEL Gornergrat was in continuous operation during 2015, with only some very short data gaps caused by electrical power outages. No energetic solar cosmic ray event had the magnitude to be observed by ground level detectors in 2015.

The radioactivity measurement with a GammaTracer device inside the detector housing of SONTEL was continued.

Key words:

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Astrophysics, cosmic rays, solar neutrons

Internet data bases:

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<http://cosray.unibe.ch>

<http://www.stelab.nagoya-u.ac.jp/ste-www1/div3/CR/Neutron/index.html>

Collaborating partners/networks:

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