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To: CTI project Agilent/IAP/FHNW/ETH <cti-spectro-astro@lists.phys.ethz.ch>,

Callisto news distribution channel <callisto@lists.phys.ethz.ch>

Subject: NOAA event 5260 observed with the new filter bank FFT spectrometer at Bleien observatory

Hello,

Today the sun was quite active and produced bursts from short wave up to microwaves (15 GHz), see here:

http://www.swpc.noaa.gov/ftpdir/indices/events/20141024events.txt

Two bands were observed in parallel with the new designed filter bank radio spectrometer M9703A (Keysight = ex Agilent)

Observation from long wavelength antenna (LWA) with 48.8 KHz frequency resolution and 37 ms time resolution. Image = 5400 x 2868 pixels. Horizontal structures are local rfi (FM 88-108 MHz) and air-communication (118-135 MHz). White lines at 147 MHz is most probably a remote sensor.

Observation from the 5m parabolic dish with 48.8 KHz frequency resolution and 37 ms time resolution. Image = 3000 x 7108 pixels Vertical structure depicts solar synchrotron radiation. Bright structure around 1090 MHz is rfi from flight radar (ADS-B broadcast). Horizonal structure around 1030 MHz is coming from secondary surveillance radar (SSR)

http://en.wikipedia.org/wiki/Secondary_surveillance_radar#cite_note-SSR-1.

Structure around 1240 MHz is produced by radio amateur station.

For both plots some spectra taken with Callisto worldwide can be found here:

http://soleil.i4ds.ch/solarradio/callistoQuicklooks/?date=20141024

Have a nice weekend,

Christian Monstein

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[Editor: Two color plots are on the next page.]



