

Contributed Talk

Splinter HiRes

DYNAMIC FINE-STRUCTURE IN MAGNETIC PROCESSES IN THE SOLAR
PHOTOSPHERE

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We present multi wavelength observations of an active region observed with the upgraded Broad Band Imager (BBI) at the GREGOR telescope. The BBI was recently equipped with two sCMOS cameras capable of taking 50 frames per second at 2560 x 2160 pixels. With the help of a filter wheel holding up to 4 broad band interference filters, a cadence of 8 seconds per wavelength position can be reached. A second imaging channel is equipped with a Lyot filter tuned to the H-Alpha line to take cospatial and cotemporal images of chromospheric layers. On May 25th 2017 we could take a sequence consisting of 100 images per wavelength position of a dissolving pore in active region NOAA 12659. During this sequence, which lasted about an hour, a light bridge located inside and partly surrounding the pore underwent a rapid evolution.