



Contribution ID: 95

Type: **Poster**

Hot Prograde Flows in Active Regions

The EVE Sun-as-a-star Doppler information has produced a surprising result: hot active-region loops sustain steady flows on the order of 100 km/s. The flows only occur at the higher temperatures (lines of Mg XII and Fe XIV, for example), making the observation very differential and redundant. Both of the EVE spectrographs (MEGS-A and MEGS-B) show the effect. The flows are invariably in the prograde sense (E limb blue, W limb red), independent of latitude or solar cycle. EVE detects the flows directly by the bulk Doppler shift of lines from isolated limb regions, and also systematically via cross-correlation of AIA image centroids with EVE Doppler shifts.

Primary author: HUDSON, Hugh (University of Glasgow)

Presenter: HUDSON, Hugh (University of Glasgow)

Session Classification: Corona

Track Classification: Corona