R_SMALL_HRES_HCAD_ModePhysics

Obsolete

This SOOP is now retired. R_SMALL_HRES_HCAD_Wave-Stereoscopy and R_SMALL_HRES_HCAD_Atmospheric_Dynamics_Structure now address the quiet Sun- and sunspot-related science goals, respectively.

This SOOP is that same as R_SMALL_HRES_HCAD_Wave-Stereoscopy for quiet sun and R_SMALL_HRES_HCAD_Atmospheric_Dynamics_Structure for sunspots (aside from not needing EUI). Propose to remove and add the objectives to those SOOPs.

Description

SOOP defined for **mode physics**:

needs HRT at high cadence at highest resolution (better than HMI), at modest (~30degrees) separation angle to Earth.

Targets both QS and sunspots with same set of observable, at perihelion for highest resolution.

Duration : hours

-> could be covered by RS burst or photospheric dynamics

ONLY difference is that this science goal need small angle with the Earth!

Instrument	Mode	Comment
PHI	PHI_nominal_HRT_0 (in case of sunspot) PHI_localseismology_HRT_3 (in case of QS)	QS only needs intensity and v_LOS, all parameters for sunspot
EPD	Normal Mode	
MAG	Normal Mode	
RPW	Detection Mode	Burst Triggers Active
SWA	Normal Mode	

SAP objective	Target	Duration	Opportunity (*e.g.*, orbital requirements, solar cycle phase, quadrature ...)	Operational constraints	Additional comments
5.5 Additional Science Objectives of PHI: 5.5.3.1					