

connecting the dots between heliophysics \rightleftarrows astrophysics

global

(exo)planets o
stars and stellar observations (o m)
heliosphere (astrospheres) (o m)
stellar cluster winds m
pulsars m o
supernova remnants m o
protoplanetary disks m o
interstellar medium o
AGNs o m
clusters of galaxies o (m)

meso

turbulences m o
radiation-interaction with matter (e.g., ionisation, recombination,...) m o
cooling heating o m
discontinuities, e.g., shock structures m o
transport parameters (bottom - up) m

particle transport

transport parameters (top - down) o m
(wave-particle-interaction)
complexity of describing the pt (-> kinetic, HD models) m

particles

suprathermal sw m o
neutrals m o
pic-up ions m o
ACRs m
solar-stellar-pulsar energetic particles m o
GCRs from SNRs, ACNs, clusters of galaxies m o
Photons (multi-wavelengths approach) o m