ASI Workshop WS5 Schedule (19/02/2021):

9.00AM-10.45AM   JSB
Lecture - Introduction to Distribution Functions
Hands on Session - Generating Random Numbers from Arbitrary Distribution Functions

10:45AM-11:00AM   Break

11:00AM - 12.45PM   NK
Lecture - Overview of Structure Formation
Hands on Session - i/Estimating the luminosity function from the SDSS Survey. ii/Fitting the luminosity function to a Schechter Function. iii/Generating a realisation of a Schecter function.

12:45PM - 02:00PM   Lunch

02:00PM - 03:00PM   NK/AP
Lecture: N-Body Simulations and data products (halo/subhalo catalogs).
Lecture+Hands-on-Session - halo + subhalo mass functions from the simulation catalog, draw parallels with luminosity. Discuss Mpeak as a proxy for halo mass. Visualise a slice of the catalog.

03:00PM - 03:15PM   Break

03:15PM - 04:30PM   NK/AP
Lecture+Hands-on-Session - Abundance matching. Generating Mock Galaxy Catalog from the Subhalo Catalog.

04:30PM - 06:00PM   AP
    Talk about 2pcf, DD/RR, DD implementation. Show brute force code. Show 2pcf for full sample. Then split by luminosity (compare Zehavi). Give assignments for SHAM with other variables and 2pcf split by other variables.