LSS II: Construction of module to generate random catalogs

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1. Introduction to the task
2. What do we want to achieve during this workshop?

1. Introduction -what is a random catalogue?

- Used as a reference catalogue that tells you - if no clustering signal and the distribution of tracers was uniform what would you expect to see in a particular part of the Universe AFTER observations.

- It must track ways in which the data is altered at each stage of the survey.

- In this way we remove non-cosmological artifacts from our data by comparing it to this reference catalogue and convert observed density into what we believe to be the true overdensity.

- The overdensity is evaluated (for example using the 2pt correlation function) to give us our cosmological results.

2. What do we want to achieve during this workshop?

- At each parallel session we have an expert taking about a particular step in the data flow pipeline.

- Use their expertise to ensure we have a comprehensive list of ways the data is affected.

- Work out which information we will need them to pass to us.

- Get an idea of how we will include this information in our catalogues and which data needs to flow through into the output.