

Simulation Software Available

- Based on the **Sophya** C++ library :
 - Free opensource software
 - Doc and download at : www.sophya.org
- **SimLSS** : simple and fast generation of $d\rho/\rho(x)$ fluctuation 3D cubes
 - Start from given $P_{ini}(k)$
 - Apply given transfer function $T(k)$ and growth factor $D(z)$
 - (add redshift distortion) , add noise
- **SynCube** : create synchrotron 3D temperature cube from HASLAM 400 MHz map
 - For various frequencies given a spectral index
- **SrCat2Cube** : create 3D radio-source temperature cube from NVSS or North20cm catalogs
- **Gsm2Cube** : create 3D temperature cube from the GSM HEALPIX maps
 - De Oliveira-Costa, MNRAS (2008) 388