

Getting Started: Cosmic Microwave Background - Lensing

	Name/Link	Description
S O F T W A R E	CAMB https://camb.info/	For calculating CMB power spectra Cl and other useful quantities. Python version just came out for the first time in February 2019.
	HEALPix/ HealPy https://healpix.jpl.nasa.gov/	You can generate a realization of CMB and plot it out easily using the python package, following tutorials online.
	LaTeX	In physics, we must use LaTeX to write journal article and it is recommended to use it for shared project notes as well. It makes life easier for typing equations, and allow you to cite references and ref to figures and equations in an automated way. Ask us for a template if you want to play with it.
T H E O R Y	Wayne Hu's tutorials http://background.uchicago.edu/	Tutorial on the CMB theory at all levels (beginner, intermediate, grad school lectures).
	CMB Lensing (theory)	<ul style="list-style-type: none"> - Flat sky lensing reconstruction: Hu (2000) https://arxiv.org/abs/astro-ph/0001303 - Full sky lensing recon: Hu & Okamoto (2003) https://arxiv.org/pdf/astro-ph/0301031.pdf - Short review on CMB lensing: Hanson et al. (2009) https://arxiv.org/pdf/0911.0612.pdf - Longer review: Lewis & Challinor (2006) https://arxiv.org/pdf/astro-ph/0601594.pdf

Coding practices:

- We follow the standard **git workflow** when collaborating on the same code (see notes in the same directory).
- We try our best to adhere to the [python style guide](#) from Google.