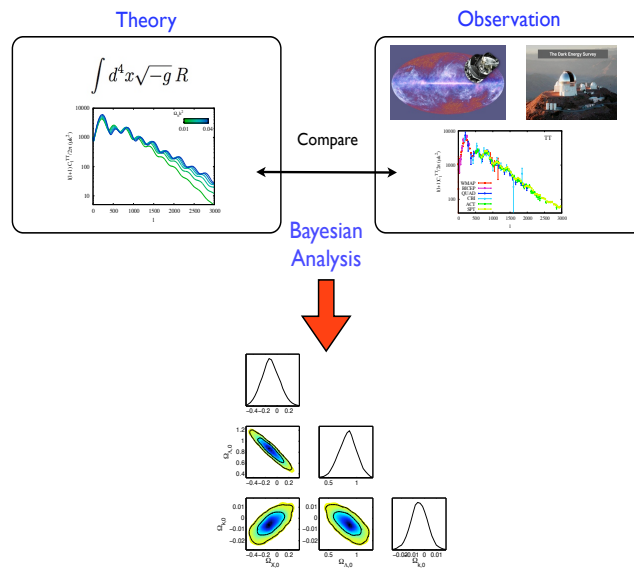


# Updated Cosmology

## with Python



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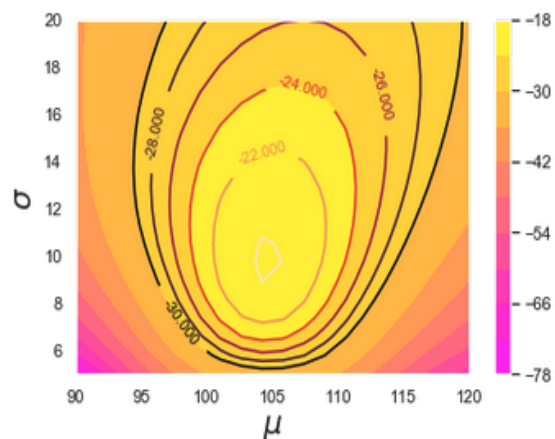
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In progress

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## HW 8

In HW 6 the likelihood function was computed for a grid of two parameters (see Figure).



**Figure 1:** Likelihood grid.

In HW 7 (ex 2) the Hubble function was computed for the CPL model, for a given set of parameters  $w_0, w_a$  and in exercise 6 several datasets were plotted.

- Use the cosmic chronometers and the CPL model to plot a similar grid, to the figure, but now for  $w_0, w_a$  in the axis.
- Select 100 random combinations of  $\{w_0, w_a\}$  (from the grid), sorted them out in ascending order, respect to the likelihood, and with that list perform an animations of the observable along with the data.

Extra: Do the same with Supernovae.