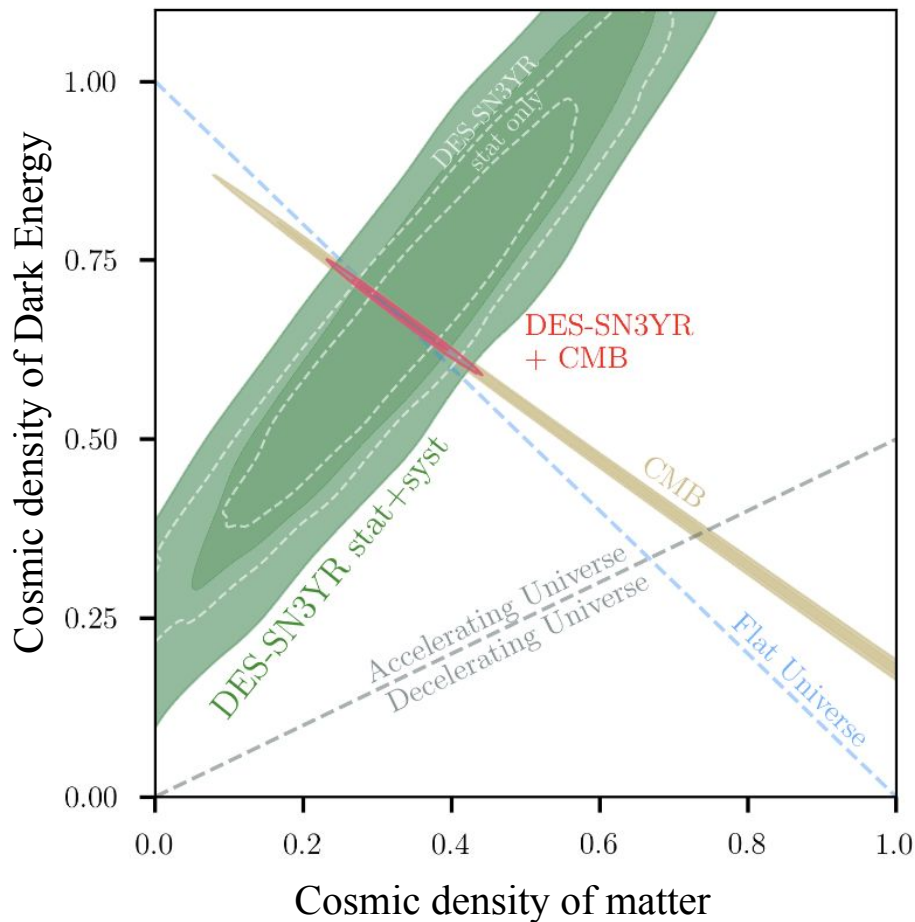


1. Cosmological Inference

In this project you will use recent **observational results on the *cosmic distance-redshift relation*** to show that

<https://arxiv.org/pdf/1811.02374.pdf>



- The Universe is filled by a mysterious component, whose gravity is repulsive (and not attractive): *Dark Energy*
- The **geometry of the Universe** is consistent with flat Minkowski space and does not show significant amounts of *curvature*
- Tools: Bayesian inference
- Theory Prerequisites: classical dynamics, Analysis, Astrophysics I (rest will be learned on the fly)