

Baryogenesis discussion

free for all discussion of tough question

“Tough Question”

- What will it take to identify the mechanism for baryogenesis or leptogenesis? Are there scenarios that could conceivably be considered to be established by experimental data in the next 20 years? What experiments are required to achieve this?

Relevant experiments for baryogenesis

- ➔ *search for B modes in CMB*
- ➔ *gravity wave search for evidence of 1st order PT*
- ➔ *axion dark matter search*
- ➔ *Q ball search*
- ➔ *exotic dark matter searches, e.g. asymmetric, anti B carrying..*
- ➔ *$0\nu\beta\beta$ decay*
- ➔ *CPV in ν oscillations*
- ➔ *absolute ν mass*
 - *Katrin*
 - *Cosmology: LSS, CMB*
- ➔ *B violation, proton decay*
- ➔ *EDM searches*
- ➔ *CPV and new flavor physics in meson decays*
- ➔ *search for new bosons at colliders*
- ➔ *triple Higgs coupling measurement in colliders*