

## **On the requirements for a successful WIMPy baryogenesis**

*Tuesday, May 21, 2013 5:40 PM (0:15)*

### **Abstract content**

I give a brief overview of a recently proposed mechanism dubbed WIMPy baryogenesis. A stable Weakly Interacting Massive Particle (WIMP) is the Dark Matter (DM) candidate. Via CP-violating annihilations of the WIMP into a quark and an exotic heavy antiquark, one gets not only the right DM thermal relic abundance but also generates the observed baryon asymmetry. I discuss the key ingredients of the models explored so far and suggest possible variants that we are currently investigating.

### **Summary**

**Presenter(s) :** UBALDI, Lorenzo

**Session Classification :** Parallel Session on Cosmology