

# Antihydrogen production

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Antihydrogen production in ATHENA [1] is analyzed more carefully. The most important peculiarities of the different experimental situations are discussed. The protonium production via the first matter-antimatter chemical reaction is commented too [2,3]. The most recent data from the ALPHA, ATRAP and ASACUSA Collaborations at the AD (CERN) are discussed [4].

## References

- [1] M. Amoretti *et al.*, Nature (London) **419**, 456 (2002)
- [2] N. Zurlo *et al.*, Phys. Rev. Lett. **97**, 153401 (2006)
- [3] E. Lodi Rizzini, L. Venturelli and N. Zurlo, ChemPhysChem **8(8)**, 1145 (2007)
- [4] <http://indico.cern.ch/conferenceDisplay.py?confId=26085>