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ASACUSA overview

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ASACUSA (Atomic Spectroscopy And Collisions Using Slow Antiprotons) collaboration at CERN AD pursues multiple goals while sharing the same infrastructure, in particular the radiofrequency quadrupole antiproton decelerator RFQD.

We have so far worked on the precision laser and microwave spectroscopy of antiprotonic helium atoms, ionization cross sections for antiproton impact on atoms and molecules, annihilation cross sections of very low energy antiprotons on nuclei, and production of antihydrogen in a “cusp” trap, aiming at the precision spectroscopy of antihydrogen ground-state hyperfine splitting.

In this talk, I will give an overview of ASACUSA; details will be presented by other ASACUSA members.

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