First attempts at antihydrogen trapping in ALPHA

The ALPHA experiment is designed to trap antihydrogen atoms in a minimum-B configuration. The antihydrogen is produced by merging plasmas of positrons and antiprotons in a cryogenic Penning trap. I will describe the design and operation of the ALPHA apparatus, and I will discuss the first attempts at trapping antihydrogen in this device.

Jeffrey S. Hangst, on behalf of the ALPHA collaboration