Professor Jeffrey S. Hangst – short biography

Jeffrey S. Hangst is a graduate of MIT (SB, SM) and of the University of Chicago (PhD).  He worked at Fermilab and at Argonne while doing his PhD at Chicago.  He moved to Aarhus University in Denmark in 1994 and has been there since.  Hangst received the European Physical Society's 1996 accelerator award for a young scientist for his work on laser cooling of stored ion beams in the ASTRID storage ring in Aarhus. He has been stationed at CERN full-time since 2001. He is a founding member of the ATHENA antihydrogen collaboration and was the Physics Coordinator of the experiment that produced the first cold antihydrogen atoms at the CERN Antiproton Decelerator (AD) in 2002.   This breakthrough was featured on the cover of the *New York Times.* He is the founder and Spokesperson of the ALPHA collaboration, which demonstrated trapping of antihydrogen atoms in 2010, and the first laser spectroscopy of antihydrogen in 2016. ALPHA’s trapping of antihydrogen was voted ‘Physics Breakthrough of the Year’ by *Physics World* magazine in 2010. ALPHA’s demonstration of laser cooling of antihydrogen featured on the cover of *Nature* in April of 2021. Hangst was elected to fellowship of the American Physical Society, Division of Plasma Physics, in 2005. He received the John Dawson award for excellence in plasma physics from the APS in 2011, and the Ångstrom medal from Uppsala University in 2013 for his work on trapped antihydrogen. He currently holds two prestigious *Semper Ardens* grants from the Carlsberg Foundation to pursue work on gravitational studies and spectroscopy with antimatter. He is a member of the Royal Danish Academy of Sciences and Letters.

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