



Welcome and Introduction

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The AEGIS logo, featuring the word "AEGIS" in a stylized, colorful font with a black underline. The letters are filled with different colors: 'A' is red, 'E' is yellow, 'G' is green, 'I' is blue, and 'S' is purple. A thick black horizontal line with a small black circle at its right end underlines the text.

PHYSICAL REVIEW LETTERS 132, 083402 (2024)

Editors' Suggestion

Featured in Physics

Positronium Laser Cooling via the 1^3S-2^3P Transition with a Broadband Laser Pulse



SYNOPSIS

Laser-Cooling Positronium

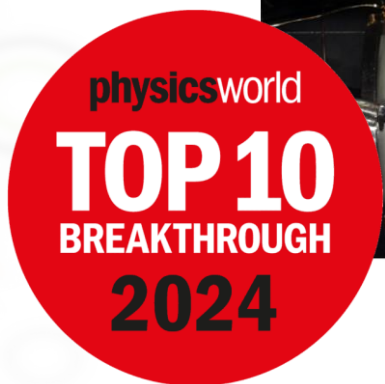
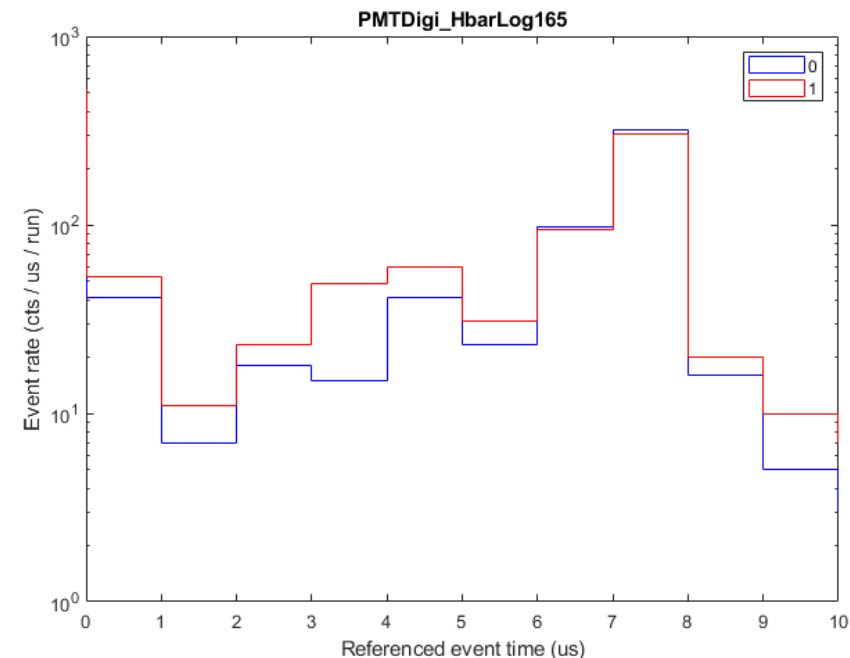
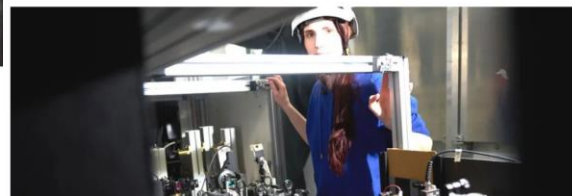
February 22, 2024 • Physics 17, s23

Researchers have managed to cool an atom commonly used in cold-atom experiments.



Antimatter: Scientists freeze positronium atoms with lasers

18 hours ago



OUTPUTS OF SIMILAR AGE FROM PHYSICAL REVIEW LETTERS

#2

of 473 outputs

AEgIS Physics timeline

CERN ☺



2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
	LS1	AD Physics					LS2		ELENA Physics					
AEgIS Hbar Phase 1							AEgIS Hbar Phase 2							
			AEgIS Ps program											
									AEgIS $\bar{\pi}$ on program					

Talks on the status of the experiment: control system, positrons and lasers, analysis

External boundary conditions

- Experiment is approved until LS3: mid-2026
- Call for proposals to the SPSC to extend after-LS3 is due by 1° of May
- Input to the European Strategy Group for the upcoming European Strategy by 31° of January

Goals for this collaboration meeting

1. Present and discuss results obtained up to now and structure publication strategy
2. Discuss and organize the preparation of the SPSC review, ESG input and Proposal
3. Identify the weakest points in the different areas of the program
4. Discuss the experimental schedule for 2025/2026
5. Discuss resources availability: manpower at CERN, schedule, financial boundaries

Agenda for this collaboration meeting

- Status session (3, 5) *today*
- Updates and results of the ongoing physics programs (1, 4) *tomorrow all day*
- Experiments in preparation session (4) *wednesday morning*
- Discussion session (main goal: converge on 2, 4) *wednesday afternoon*
- Planning and decision session (main goal: converge on 4 and 5) *thursday morning*