

PPC Report

Matt Graham for PPC

HPS Collaboration Meeting, JLAB

October 21, 2026

SLAC NATIONAL ACCELERATOR LABORATORY

Papers and theses submitted in FY26

First SIMPs publication!

P. H. Adrian et al., *Phys.Rev.D* 113 (2026) 3, 032019.

https://arxiv.org/abs/2511.02695

Thesis Defense:

– Rory O'Dwyer, "A Search for Mesonic Dark Matter Using 18 pb-1 of 3.74 GeV Data from the Heavy Photon Search Experiment", June 2026, thesis not uploaded yet…

– Sarah Gaiser, "Searching for Long-Lived Dark Photons with the Heavy Photon Search Experiment", July 2026, thesis not uploaded yet…

Conference Presentation in FY26

S. Gaiser, "Searching for Long-Lived Dark Photons with the Heavy Photon Search Experiment", University of Bonn Particle Physics Seminar, Dec 4, 2025

APS 2026, March-April Meeting:

S. Gaiser, "Searching for long-lived dark photons with the Heavy Photon Search experiment"

R. O'Dwyer, "Applying an Adversarial Neutral Network to Probe The 2021 HPS SIMP Search " (no talk uploaded…booo)

E. Peets, "Resonance Searches using Gaussian Process Regression in the Heavy Photon Search Experiment" (booo)

L. Wolf, "Møller electrons and radiative tridents for determining the HPS detector resolution", (boo)

N. Baltzell, "No Title", JLAB Users Meeting 2026 (boo)

Papers that will come out in FY27

- Displaced SIMPs search on 2021 data
- Bump hunt search on 2021++ data
- Displaced A’ on 2021 data

- Avalanche of new results! Where do we show them?

Upcoming Conferences FY27

Conference	web site	location/organization	dates	deadline for abstract submission
2027				
EPS-HEP 2027	https://www.eps-hep2027.eu/	Bucharest, Romania	July 26-30, 2027	
DM2027 **Dark Matter 2027: From the Smallest to the Largest Scales**	https://indico.ifca.es/event/3675/	Santander, Spain	May 32-June 4, 2027	
FPCP2027 **25th Conference on Flavor Physics and CP Violation**	https://fpcp-conferences.web.cern.ch/	Tianjin, China	May 24-28, 2027	
APS Global Physics Conference 2027	https://summit.aps.org/attend/abstracts/	Atlanta, GA, USA	April 11-16, 2027	October 22, 2026



Here, if ready

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Good one too

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SEND PPC YOUR ABSTRACTS