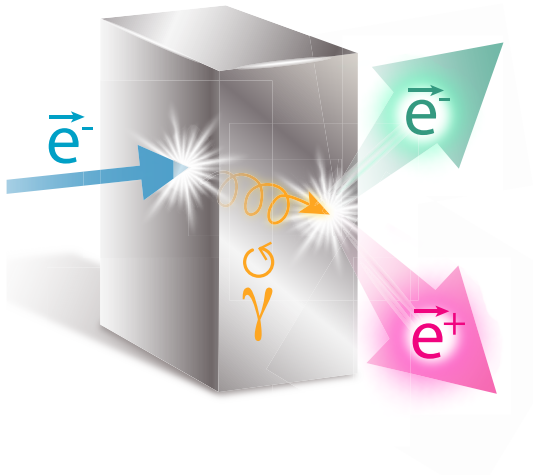


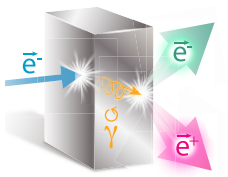
JLab PWG On-line Meeting

July 9th, 2025

Eric Voutier

Université Paris-Saclay, CNRS/IN2P3/IJCLab, Orsay, France

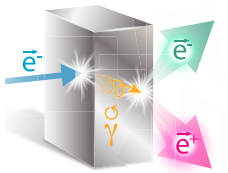
(Jefferson Lab Positron Working Group) A. Accardi *et al.* EPJ A 57 (2021) 261



- The **Positron Experimental Program** at **JLab** represents today **6 approved proposals** (C1) covering the 3 pillars of the JLab Positron White Paper and representing **412 days** of single hall running.

NUMBER	TITLE	PHYSICS THEME	CONTACT PERSON	HALL	DAYS AWARDED	SCIENTIFIC RATING	PAC DECISION
PR12+23-002	Beam Charge Asymmetries for Deeply Virtual Compton Scattering on the Proton at CLAS12	GPDs	Eric Voutier	B	100	A-	C1
PR12+23-003	Measurement of Deep Inelastic Scattering from Nuclei with Electron and Positron Beams to Constrain the Impact of Coulomb Corrections in DIS	MPE	Dave Gaskell	C	9.3	A-	C1
PR12+23-006	Deeply Virtual Compton Scattering using a positron beam in Hall C	GPDs	Carlos Muñoz Camacho	C	137	A-	C1
PR12+23-008	A Direct Measurement of Hard Two-Photon Exchange with Electrons and Positrons at CLAS12	TPE	Axel Schmidt	B	55	A	C1
PR12+23-012	A measurement of two-photon exchange in unpolarized elastic positron–proton and electron–proton scattering	TPE	Michael Nycz	C	56	A-	C1
PR12+24-005	A dark photon search with a JLab positron beam	BSM	Bogdan Wojtsekhowski	B	55	A-	C1

C1 = Conditionally Approved with Technical Review by the Lab



- **3** new **Proposals** have been submitted to PAC53 :

  - n-TPE

    Measurement of two-photon exchange contribution in electron-neutron and positron-neutron elastic scattering

    S. Alsalmi, P. Blunden, P. Datta, E. Fuchey

  - MPE in eN

    Energy dependence of dispersive effects in unpolarized inclusive elastic electron/positron-nucleus scattering

    A. Afanasev, J. Arrington, P. Gueye

  - T(M)PE in (SI)DIS

    Multi-photon effects in inclusive and semi-inclusive deep inelastic scattering

    G. Gaskell, T. Hague, M. Nycz

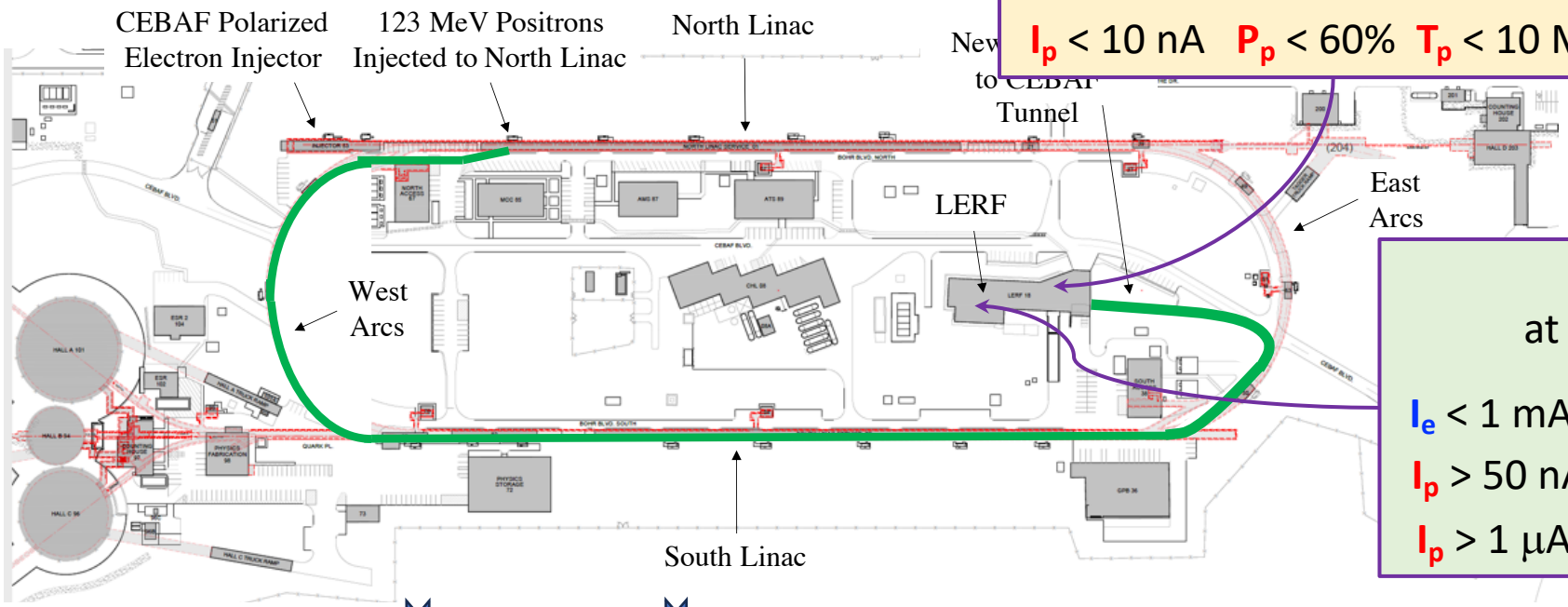
Special thanks to the reviewers of the JLab PWG

Physics @ **LERF**
at **very low beam energies**

I_e < 10 mA P_e > 80% T_e < 10 MeV

I_p < 10 nA P_p < 60% T_p < 10 MeV

Nuclear physics
Nuclear astrophysics
Atomic physics
Materials Science
Test of the Standard Model



Physics @ **LERF**
at **low beam energies**

I_e < 1 mA P_e > 80% T_e < 150 MeV

I_p > 50 nA P_p > 60% T_p < 123 MeV

I_p > 1 μA P_p < 10% T_p < 123 MeV

International Workshop on Low Energy $e^{\pm}$ Physics at Jefferson Lab
(LEEPP@JLab)
Newport News, November, 3rd-7th, 2025
https://www.jlab.org/conference/LEEPP

D. Cassidy (University College London)
D. Higinbotham (Jefferson Lab)
T. Kutz (Universität Mainz)
F. Selim (Arizona State University)
J. Grames (Jefferson Lab)
K. Jordan (Jefferson Lab)
A. Schmidt (George Washington University)
E. Voutier (Université Paris-Saclay)

Registration an abstract submission will open at the end of the current week.