

M E N U:

- Home
- Proposals
 - Create(PAC 44)
- Experiments
 - Search

PAC 44 - New Proposal

New Proposal

Proposal Cover Sheet(PAC 44)

Proposal Type

New Run Group Proposal

All sections must be filled in. In some cases, you may answer N/A (not/applicable), and this data will be reflected in your final proposal. There will be no follow-up queries from the Laboratory. If N/A is not appropriate for the final proposal, it could result in the proposal being rejected for insufficient information.

Toggle(Expand/Collapse) Content

Basic Information

Title *

Nucleon Resonance Structure Studies Via Exclusive KY Electroproduction at 6.6 GeV and 8.8 GeV

Other Run Group Titles

Indicate the other proposal titles in this group

[Add Other Proposal](#)

• **Proposal Title ***

A Search for Hybrid Baryons in Hall B with CLAS12

[Remove](#)

• **Proposal Title ***

Deeply Virtual Compton Scattering with CLAS12 at 6.6 GeV and 8.8 GeV

Remove

Days Requested for Approval

100

Experiment Halls *

A ☐

B ☒

C ☐

D ☐

Acc ☐

Inj ☐

LERF ☐

Proposal Physics Goals:

Indicate any Experiments that have physics goals similar to those in your proposal.

Approved, Conditionally Approved, and/or Deferred Experiment(s) or proposals.

E12-06-108A, E12-09-003

Collaboration-Approved Proposals:

If you will be running in parallel with an approved experiment, please indicate the experiment number



Experiment Parameters

List Beam Energies and Beam Days: (e.g. 30 Days at 11 GeV, 20 Days at 8 GeV)

50 days at 6.6 GeV, 50 days at 8.8 GeV



List Range of Beam Currents: (e.g. 10-60 nA)

1-200 nA



Indicate Major Apparatus: (e.g. CLAS12 & RICH, GLUEX, SHMS, HMS, SBS, SOLID)

CLAS12 & FT & RICH

Contact Us

Spokespersons

Add Spokesperson

Spokesperson *

Ralf Gothe

Remove

Spokesperson *

Victor Mokeev

Remove

Name *

Daniel S. Carman

Institution

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Email Address *

carman@jlab.org

After saving, this email address will automatically receive an email that will provide information on how to update this proposal if needed before the deadline.

Author List

As of PAC 43, the author list section was added and should include the full first name, last name, institution, and author type of each author. Please select the CSV file that contains the authors list. Any author with the same first name, last name, and institution will be ignored.

File Format

Click [here](#) to view a sample file

Accepted extensions list:

- .csv
- .txt

Choose File  authors.txt

Clear

Imported Authors from File

This section contains the parsed authors from the file.

These authors will be added to the Proposal's Author List below after submission

Remove Pending Authors

First Name	Last name	Institution	Author Type
Cesar	Fernandez-Ramirez	Universidad Nacional Autonoma	Author
Elena	Santopinto	INFN Sezione di Genova	Author
Jan	Ryckebusch	Ghent University	Author
Craig	Roberts	Argonne National Laboratory	Author
Harry	Lee	Argonne National Laboratory	Author
Ron	Workman	The George Washington University	Author
Igor	Strakovsky	The George Washington University	Author
Michael	Doring	The George Washington University	Author
Hiroyuki	Kamano	KEK Theory Center	Author
Adam	Szczepaniak	Jefferson Laboratory	Author
David	Richards	Jefferson Laboratory	Author
Michael	Pennington	Jefferson Laboratory	Author
Robert	Edwards	Jefferson Laboratory	Author
Lucilla	Lanza	Universita di Roma Tor Vergata	Author
Annalisa	D'Angelo	Universita di Roma Tor Vergata	Author
Ken	Hicks	Ohio University	Author
Haiyun	Lu	University of Iowa	Author
Evgeny	Isupov	Moscow State University	Author
Boris	Ishkhanov	Moscow State University	Author
Evgeny	Golovach	Moscow State University	Author
Brian	Raue	Florida International University	Author
Kijun	Park	Old Dominion University	Author
Dave	Ireland	University of Glasgow	Author
Bill	Briscoe	The George Washington University	Author
Iuliia	Skorodumina	University of South Carolina	Author
Ralf	Gothé	University of South Carolina	Spokesperson
Gleb	Fedotov	University of South Carolina	Author
Eugene	Pasyuk	Jefferson Laboratory	Author
Volker	Burkert	Jefferson Laboratory	Author
Harut	Avakian	Jefferson Laboratory	Author
Victor	Moakeev	Jefferson Laboratory	Spokesperson
Daniel	Carman	Jefferson Laboratory	Contact

Imported Authors from File Proposal's Authors List

This section contains the saved proposal's authors.

Proposal does not contain any authors. To add an author follow the directions at the beginning of this section

I Resources List

List below significant resources - both in equipment and human - that you are requesting from Jefferson Lab in support of mounting and executing the proposed experiment. Do not include items that will be routinely supplied to all running experiments such as the base equipment for the hall and technical support for routine operation, installation, and maintenance.

Major Installations

Equipment

None beyond standard Hall B

Support Structures

None beyond standard Hall B

Data Aquisition/Reduction

Support Structures

JLab compute farm, Hall B DAQ, MSS for data storage, standard Hall B online/offline computing

Software

Standard Hall B DAQ for online, standard calibration, cooking, and analysis software and support for Hall B data reduction, analysis, and simulation, CLAS12 database

Major Equipment

Magnets

CLAS12 torus and solenoid, standard beamline magnets including the Hall B tagger

Power Supplies

Standard supplies for Hall B operation of CLAS12 and beamline

Targets

Unpolarized liquid-hydrogen target, 5-cm long, standard Hall B configuration

Detectors

CLAS12, MM, FT, CND, RICH, Tagger, beamline

Electronics

Standard for Hall B and CLAS12

Computer Hardware

Standard for Hall B online, JLab
computing farm, MSS, and work disk
storage

Other Resources

None beyond standard Hall B

Experiment Requirement List

Hall Liaison:

Daniel Carman (carma)

List all combinations of anticipated targets and beam considerations required to execute the experiment. (This list will form the primary basis for the Radiation Safety Assessment Document (RSAD) calculations that must be performed for each experiment.) support for routine operation, installation, and maintenance.

Beam Requirements:

Add Beam Requirement

Polarization and Other

	Beam Energy(MeV)	Mean Beam Current(μA)	Requirements	Est Beam
Remove	<input type="text" value="8.8"/>	<input type="text" value="0.100"/>	<input type="text" value="polarized beam"/>	<input type="text" value="1200"/>
Remove	<input type="text" value="6.6"/>	<input type="text" value="0.100"/>	<input type="text" value="polarized beam"/>	<input type="text" value="1200"/>

Target Identification Checklist

Check all items for which there is an anticipated need.

Cryogenics

Electrical Equipment

Radioactive Materials

Pressure Vessels

Special Target Materials

Flammable

Drift Container

Other Target Materials

Vacuum Vessels

Radioactive Sources

Large Mech. Structures

Lasers

Hazardous Materials

General

☒ Base Equipment

☐ Temp. Mod. To Base Equip.

☐ Perm. Mod. to Base Equip.

☐ Major New Apparatus

Other General

Computing Requirement List

Silo/Mass Storage (Tape)

MSS, work disk space, standard Hall B
online DAQ storage

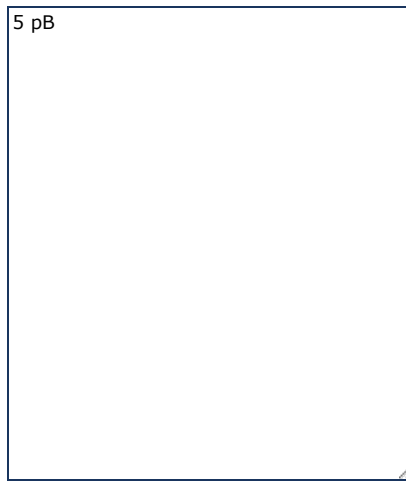
Amount of Simulated Data Expected

100 PB

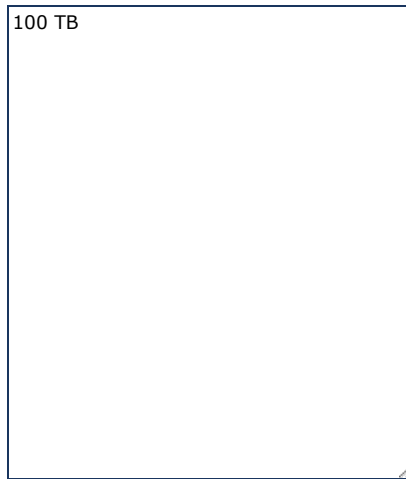
Amount of Raw Data Expected(TB)

1 PB

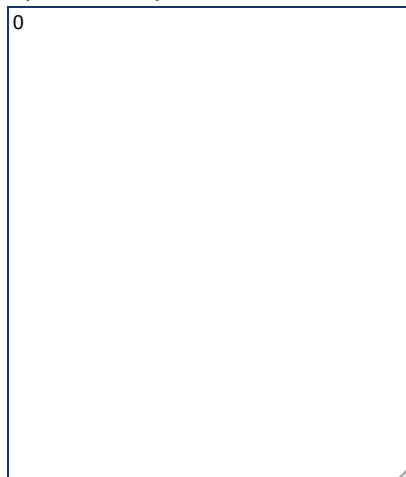
Amount of Processed Data Expected(TB)



Online Storage Disk Required (TB)

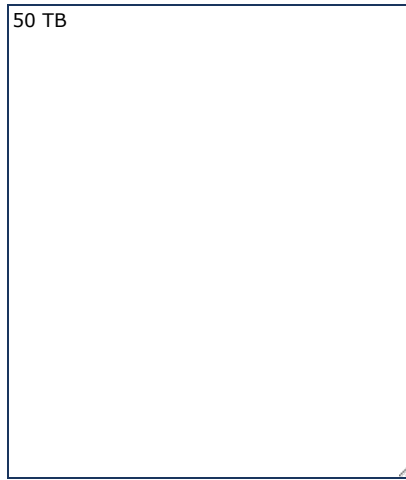


Imported Data Expected from Offsite Institution



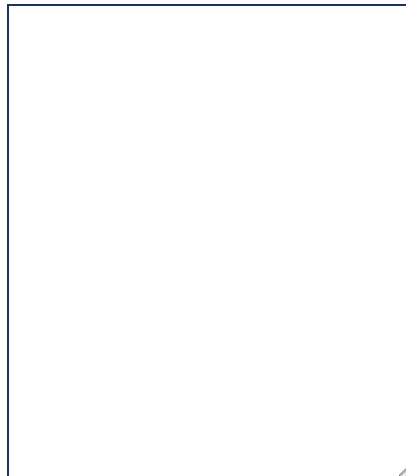
Exported Data Expected to Offsite Locations

50 TB

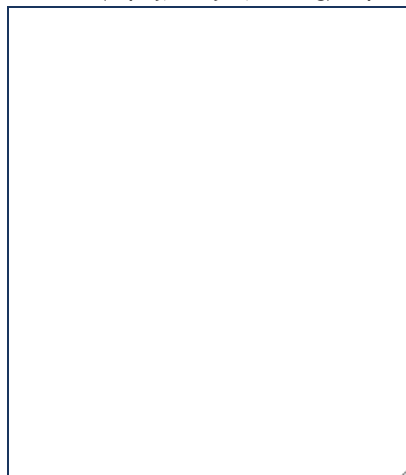


Computing

Simulation Requirements(SPEC CINT 2000hrs)



Production(Replay, Analysis, Cooking) Requirements (SPEC CINT 2000hrs)



Other Requirements

Please add any additional information that will be useful for JLab's IT Division regarding unique configurations or that may require additional resources and/or coordination. Please indicate if possible what fraction of these resources will be provided by collaborating institutions and how much is expected to be provided by JLab.

JLab will provide silo, disk space for data processing/cooking, disk space for DSTs. DSTs will be made available for offsite copying and analysis.

Assumed Resource Requirements

Use this section to provide any information regarding the assumed requirements for the resources needed.

Attachments

Attachments can be uploaded after a proposal is saved

Create Proposal

[Back](#)