



Jefferson Lab PAC 38 Proposal Cover Sheet

Experimental Hall:

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**Days Requested for
Approval:**

39.8

This document
must be received
by close of
business Friday,
July 1, 2011 at:

Jefferson Lab
Mail Stop 12B
12000 Jefferson
Ave.
Newport News,
Va
23606

Proposal Title:

The Deuteron Tensor Structure Function b1

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.**

Contact person:

Name : K. Slifer

Institution : UNH

Address : 9 Library Way

Address :

City, State, ZIP/Country : Durham, NH

Phone : 603-722-0695

Spokespersons:

1. K. Slifer

2. P. Solvignon

3. J.P. Chen

4. O. Rondon

5. N. Kalantarians

6.

Fax : <input type="text"/>	7. <input type="text"/>
Email : <input type="text" value="slifer@jlab.org"/>	8. <input type="text"/>

Contact person:	(Jefferson Lab Use only.)
Recipient Date :	<input type="text"/>
By :	<input type="text"/>

LAB RESOURCES LIST

Jlab Proposal No.: Date

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 item 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 (either your equip. or new equip requested from

JLab)

UVA/JLab 5T polarized target. Upstream chicane.

New Support Structures

Data Acquisition/ Reduction

New Support Structures

New Software

Major Equipment Magnets :

BE and BZ1 upstream chicane magnets

Power Supplies:

chicane

Targets:

UVA/JLAB 5 T polarized Target

Detectors:

Electronics:

Computer Hardware:

Other:

slow raster

Other:

BEAM REQUIREMENTS LIST

Jlab Proposal No.: Date

Hall: Anticipated Run Date PAC Approved Days:

Spokesperson: K. Slifer

Hall Liaison:

Phone: 603-722-0695

Email: slifer@jlab.org

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.)

[illegible]

The beam energies, E_{Beam} , available are: $E_{\text{Beam}} = N \times E_{\text{Linac}}$ where $N = 1, 2, 3, 4$, or 5 . $E_{\text{Linac}} = 800 \text{ MeV}$, i.e, available E_{Beam} are 800, 1600, 2400, 3200 and 4000 MeV. Other energies should be arranged with the hall leader before listing.

HAZARD IDENTIFICATION CHECKLIST

Lab Proposal No.: Date

Check all items for which there is an anticipated need.

Cryogenics <input checked="" type="checkbox"/> beamline magnets <input checked="" type="checkbox"/> analysis magnets <input checked="" type="checkbox"/> target magnets type: <input type="text" value="superconducting"/> flow rate: <input type="text" value="5 l/hr"/> capacity: <input type="text" value="10 l"/>	Electrical Equipment <input type="checkbox"/> cryo/electrical devices <input type="checkbox"/> capacitor banks <input type="checkbox"/> high voltage <input type="checkbox"/> exposed equipment	Radioactive/Hazardous Materials List any radioactive or hazardous/toxic materials planned for use: <div style="border: 1px solid black; height: 60px; width: 100%;"></div>
Pressure Vessels <input checked="" type="checkbox"/> inside diameter <input checked="" type="checkbox"/> operating pressure <input checked="" type="checkbox"/> window material <input type="checkbox"/> window thickness	Flammable Gas or Liquids type: <input type="text"/> flow rate: <input type="text"/> capacity: <input type="text"/> Drift Containers type: <input type="text"/> flow rate: <input type="text"/> capacity: <input type="text"/>	Other Target Materials <input type="checkbox"/> Beryllium (Be) <input type="checkbox"/> Lithium (Li) <input type="checkbox"/> Mercury (Hg) <input type="checkbox"/> Lead (Pb) <input type="checkbox"/> Tungsten (W) <input type="checkbox"/> Uranium (U) <input type="checkbox"/> *Helium (^3He) <input type="checkbox"/> Other (List below) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
Special Target Materials <input type="checkbox"/> *Helium (^3He) <input type="checkbox"/> Deuterium		
Vacuum Vessels <input type="checkbox"/> inside diameter <input type="checkbox"/> operating pressure <input type="checkbox"/> window material <input type="checkbox"/> window thickness	Radioactive Sources <input type="checkbox"/> permanent installation <input type="checkbox"/> temporary use type: <input type="text"/> strength: <input type="text"/>	Large Mech. Structure/System <input type="checkbox"/> lifting devices <input type="checkbox"/> motion controllers <input type="checkbox"/> scaffolding or <input checked="" type="checkbox"/> elevated platforms
Lasers	Hazardous Materials	General

<div>type: <input type="text"/></div> <div>wattage: <input type="text"/></div> <div>class: <input type="text"/></div> <div>Installation:<div><input type="checkbox"/> permanent</div><div><input type="checkbox"/> temporary</div></div> <div>Use:<div><input type="checkbox"/> calibration</div><div><input type="checkbox"/> alignment</div></div>	<div><input type="checkbox"/> cyanide plating materials</div> <div><input type="checkbox"/> scintillation oil (from)</div> <div><input type="checkbox"/> PCB's</div> <div><input type="checkbox"/> methane</div> <div><input type="checkbox"/> TMAE</div> <div><input type="checkbox"/> TEA</div> <div><input type="checkbox"/> photographic developers</div> <div><input type="checkbox"/> other (list below)</div> <div><input type="text"/></div>	<div>Experiment Class</div> <div><input checked="" type="checkbox"/> Base Equipment</div> <div><input checked="" type="checkbox"/> Temp. Mod. to Base Equip.</div> <div><input type="checkbox"/> Permanent Mod to Base Equipment</div> <div><input type="checkbox"/> Major New Apparatus</div> <div>Other:</div> <div><input type="text"/></div>
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Computing Requirements List

Proposal Title:

Spokesperson:

Experimental Hall:

Data:

Silo/Mass Storage (Tape):

Amount of Simulated Data Expected (TB):

Amount of Raw Data Expected (TB)

Amount of Processed Data Expected:

Online Storage (Disk) Required (TB):

Imported Data Expected from Offsite Institutions:

Exported Data Expected to Offsite Locations:

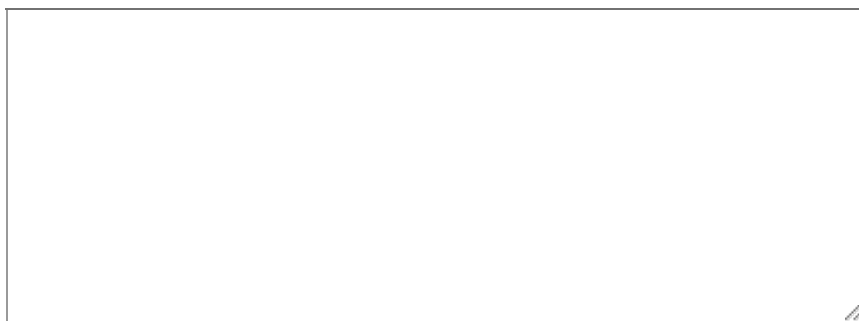
Computing:

Simulation Requirements (SPEC CINT2000 hrs):

**Production (Replay, Analysis, Cooking) Requirements
(SPEC CINT2000 hrs):**

Other Requirements

Please add any additional information that will be useful for JLab's Information Technology group 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.

A large, empty rectangular box with a thin black border, intended for the user to provide additional information regarding resource requirements and coordination.

Submit