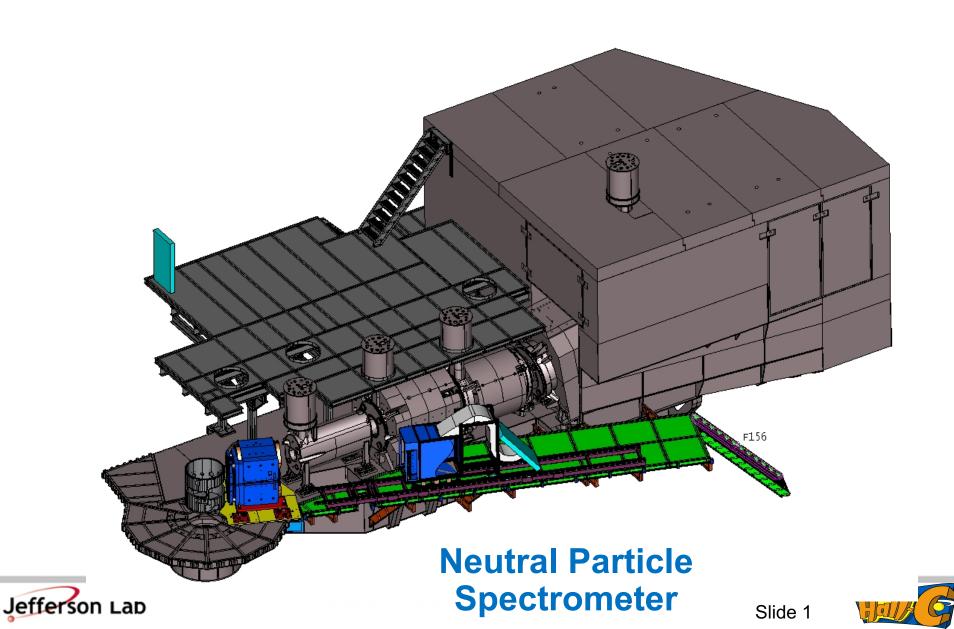
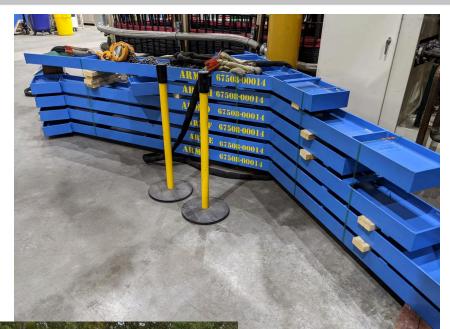
# Hall C Status – February 2021



# **NPS Support Structure Parts**









**Thomas Jefferson Nat** 



## **NPS Frame**

NPS Calorimeter frame fabricated at Orsay.

Now at JLab in Test Lab







# High Momentum Spectrometer

HMS is over 25 years old
Remains critical element of 12 GeV program
P <= ~ 7.4 GeV

New quadrupole power supplies delivered Hodoscope replacement underway

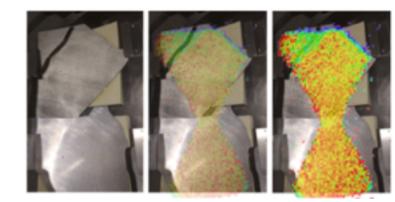
New drift chambers for 12 GeV

Cherenkov light leak (250 Khz) repaired (2020) Broken Cherenkov mirrors repaired (2018)

Aerogel needs new tubes











### **HMS Quadrupole Power Supplies**

Three new HMS quadrupole power supplies from Danfysik delivered

Replacing 25+ year old supplies
Remote polarity reversing will restored

#### Testing underway







Tho

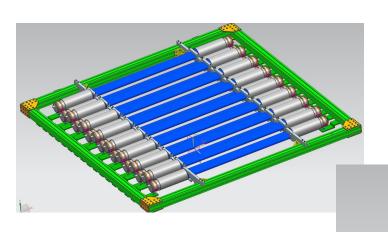
## HMS Hodoscope refurbishment

#### HMS hodoscope:

- >25 year old plastic
- ~15 year old tubes

New tubes, scintillator light guides

New frame





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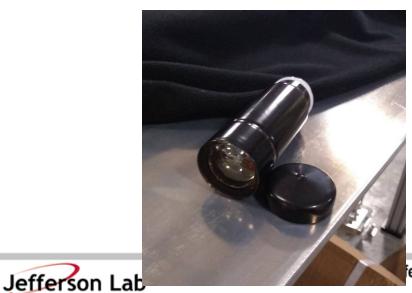


## HMS Hodoscope refurbishment

New hodoscope frames designed

New tubes and plastic delivered

Dipole fringe fields measured at hodoscope PMT locations. Maximum seen is 3 gauss with dipole @ 2750A. (> 7.2 GeV/c)





ferson National Accelerator Facility

#### Hall C - 2020

Fall 2019

Polarized 3He target installed

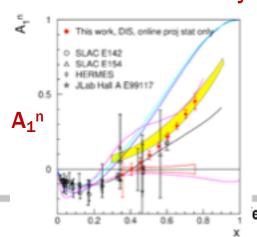
Spring 2020

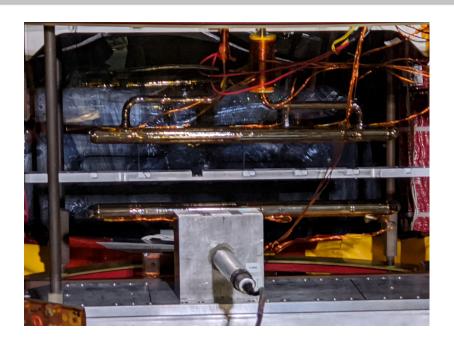
Jefferson Lab

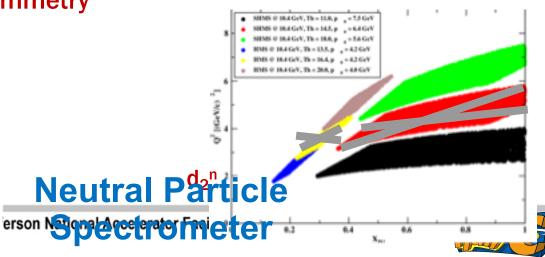
E12-06-110  $A_1^n$  run E12-06-121  $g_2^n/d_2^n$  setup interrupted by MEDCON6

August/September 2020

E12-06-121  $g_2^n/d_2^n$ E12-06-121A 3He elastic asymmetry







### Scheduling in the nearish term

- A new NPES schedule is underway to go up to 12/2022
- Uncertainties in budgets, run weeks, approvals and bears oh my... here's a general approach:
  - Complete high impact running, 2 (4) experiments
  - Try to get as much synergistic science in as possible,
     i.e. shared configuration
  - Try to provide data for variety of groups/interests/topics
  - 2023 (and beyond!) more open, could start NPS or LAD or continue standard configuration

See talk this afternoon!



0.5 | Such Print |

May – [December?] 2022 Add in x>1, EMC, CaFe, NucR

Combine earlier?
Some challenges to make target common

2023 – Advice? Be ready!

August – December 2021, Low base energy – facilitates L/T separations Pion form factor and scaling combined experiment

Prepare for discussion!



#### Hall C – 2021+

```
Oct 2020 - June 2021
    Scheduled Accelerator Down
    Hall Maintenance
June 21–Oct 11, 2021 (moving to August – December)
    E12-19-006 Excusive p(e,e'π<sup>±</sup>) LT separated cross sections (PionLT)
                Scaling and Pion Form Factor
                (was E12-06-101 and E12-07-105)
                Beam Energies 9.2, 8.0, 9.9, 6.0 GeV
2022 (May-Dec?)
    Standard equipment solid and cryotarget experiments
    CaFe, EMC, x>1, NucR, PionLT ... ?
                                      Or extra DVCS days
2023
    NPS? DVCS/SIDIS and Wide Angle run groups (71 PAC days) + LAD?
2024
    Standard equipment?
```



