**CEBAF**

**High Voltage**

Commercial (or homebuilt?) positive biased anode PS (+2kV) with EPICS interface

Spare R30 ceramic, cable

SF6 maintenance or gas

**Vacuum**

Upgrade from UHV to SPCe

Replace NF3 leak valve (replace Cs too?)

NF3 bottle + regulator (dedicated)

New load chamber?

Replace linear motion chopping aperture assemblies => (2) + (2) ordered

400C bake oven

Repair VAT valve seats?

Gaskets, bolts, flanges

**Laser**

Address RAR (shutter fixture, fast shutter, clean-up polarizer)

Upgrade TMG?

LLRF source for KL

Finish seed laser upgrade

Preamps : $5750/each x 4

Laser PM (TMG RTP, SHG, waveplates, etc)

New cebaf drive laser power meter: $700

Polarizers: $610 x 2pcs ~ $1.25k

Multi-axis stages: $500 x 3pcs =$1.5k

HWP: $510 x 2pcs ~$1.1k

Mechanical shutters: $700 x 2pcs ~ $1.5k

Miscellanious, lab supplies: $1k

**Moller**

RTP Driver prototype + (2) production units

IA Driver prototype + (2) production

Spare RTP crystals

New RTP mechanical mount???

Helicity Magnet prototype + (2) production + (5?) magnets

6 MeV Wien design???

**Other**

VME crate for helicity card - $6833

Mott ???

Strip chart recorder

Turbo pump cart repair

**RESEARCH**

**Student project for FY25**

Aziz - Nanopillar arrays study at GTS

Aiman - Outgassing of low carbon steel

Greg – Lifetime studies at the UITF

Adam – More MOCVD tests at microMott

Kawser – what type of support

Colin – Designing a load-lock microMott

**R&D projects**

Wien-Penning Cell

UCSB photocathode

**Collaborative Project work**

EIC source scope – prototype Wien filter and calculations for Mott polarimeter

xLIGHT CRADA – gun design reivew

Xelera SBIR – test high power target at LERF

SLAC/JLAB/KEK – test Kyocera R28 insulator materials, simulate capture/cavity models

Gun LDRD –

**Software**

CST – happy with the SRF/CIS group license

ANSYS – I think this is mainly Silviu on the HEP grant

COMSOL – Greg uses this at ODU, so I don’t think we have to buy

Lumerical license renewal: $5.6 k (software for Aziz)

**Papers, Conferences, Training**

Biased anode at CEBAF

500 kV SF6 insulator

UITF/Booster

200 kV gun/injector

UCSB photocathodes