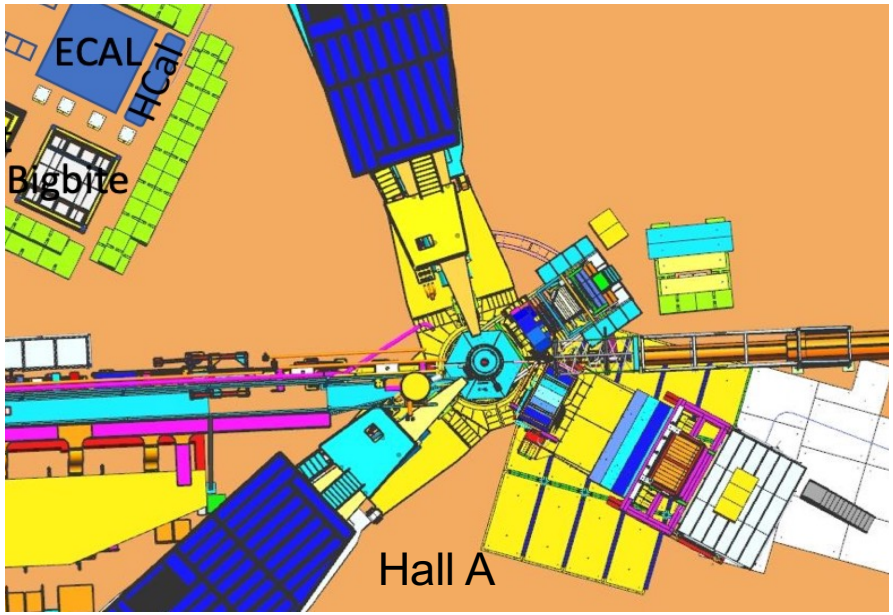
SBS collaboration meeting 2024

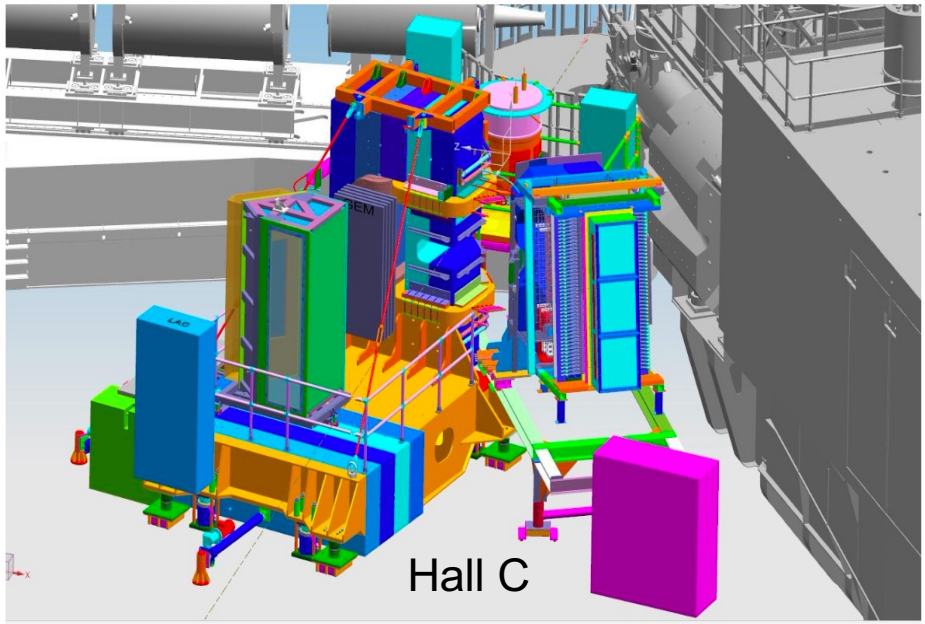
B. Wojtsekhowski, on behalf of the SBS CC

Welcome to the 2024 Super Bigbite Collaboration Meeting

60+ collaborators are registered for this meeting

Meeting agenda includes preparation for the GEp run, analysis of the completed experiments, and several new experiments/ideas.





SBS collaboration meeting 2024

SBS Coordinating Committee (2024)

T. Averett, G. Cates, E. Cisbani, D. Dutta, E. Fuchey,
D. Hamilton, M. Jones, N. Lyanage, R. Montgomery,
K. Paschke, A. Puckett, B. Wojtsekhowski

Charter for the Super Bigbite Spectrometer Collaboration

(Dated: September 21, 2023)

Goals

The Super Bigbite Spectrometer (SBS) collaboration is a working group within the Hall A collaboration whose purpose is to ensure the successful running, analysis, and publication of approved experiments which will use all or parts of the equipment of SBS. This collaboration formulated the original scope and drove the realization of the DOE-supported SBS program, and this charter formalizes its structure. This collaboration includes the group of individuals who initially developed the SBS program, as well as the experiments accepted by the CC vote.

The SBS group of experiments presently consist of E12-07-109(GEp), E12-09-016(GEn), E12-09-019(GMn), E12-09-018(SIDIS), C12-15-006 (TDIS), E12-17-004 (GEn-recoil) with run group additions C12-15-006A (TDIS-Kaon) and C12-15-006B (Tagged DIS Measurement of the Neutron Structure Function), E12-20-008(pionKLL), E12-20-010(nTPE), and E12-22-005(pionALL). This collaboration and its coordinating committee have been formed for a broad, common scientific endeavor, and should not be confused with any entity named in the management plan specific to the DOE-supported SBS program, formally completed in 2017.

This charter recognizes the responsibilities of the individual groups as outlined in the SBS Research Management Plan. This charter's purpose is to establish an effective collaboration structure so that activities within the DOE-related SBS program as well as other activities related to the SBS experiments can be coordinated efficiently. The responsibilities of the SBS collaboration include the development, construction, installation and calibration of the components of the SBS and ancillary detectors needed for SBS-experiments, within the available funds.

These responsibilities also include implementation of readout electronics and data-acquisition hardware as well as software for data-acquisition, calibration, and analysis. The collaboration will share techniques, software, calibrations, and knowledge to support the rapid and accurate analysis of data and to move experiments forward towards timely publication. The collaboration also coordinates the development and construction of the several key systems on which the SBS program depends, especially the front GEM tracker (used in the SBS for the GEp experiment and in BigBite for other experiments), the polarized He-3 target with convection-driven flow of gas, the Hadron calorimeter (HCAL-J), the radiation-hard electromagnetic calorimeter (ECAL), upgraded BBCAL, highly segmented Timing Hodoscope, and the highly segmented Gas Cherenkov counter for BigBite.

SBS project overview

First experiment was formulated 17 years ago in 2007

Large Acceptance Proton Form Factor Ratio Measurements at 13 and 15 (GeV/c)^2 Using Recoil Polarization Method

C.F. Perdrisat (spokesperson), L.P. Pentchev (spokesperson-contact), D. Armstrong, T. Averett, R. Feuerbach, M. Finn, M. Meziane
College of William and Mary

E. Cisbani(spokesperson), F. Cusanno, F. Garibaldi, S. Frullani, G. M. Urciuoli, M. Iodice, M.L. Magliozzi
INFN, Rome, Italy

V. Punjabi (spokesperson), M. Khandaker, F. Wesselmann
Norfolk State University

B. Wojtsekhowski (spokesperson), A. Camsonne, J.P. Chen, E. Chudakov, C. DeJager, H. Fenker, P. Degtyarenko, M. Jones, J. Gomez, O. Hansen, D. W. Higinbotham, J. LeRose, R. Michaels, S. Nanda, A. Saha
Thomas Jefferson National Accelerator Facility, Newport News, VA 23606

E. Brash and D. Doughty
Christopher Newport University, Newport News, VA and Thomas Jefferson National Accelerator Facility, Newport News, VA 23606

SBS project meetings overview

Meeting in 2008

(Multi Purpose Spectrometer) Meeting 0

Talks of the first MPS meeting

May 8, 2008 - from 9:30 AM EDT
JLAB CC, room A110

- **Structure of the organization**, C. Perdrisat
- **The Goals of the Meeting**, F. Garibaldi
- **MPS parameters and components**, B. Wojtsekhowski
  MPGD-GEM Tracking, E. Cisbani
- **Experiments with recoil polarimetry**, J. Annand
  Resonance in pion-N, R. Gilman
- Form factors experiments
  GMP, B. Wojtsekhowski
  GEP, L. Pentchev
  GMN, B. Quinn (presented by G. Franklin)
  GEN, G. Cates
- **J/Psi experiment(s)**, F. Garibaldi
  Charm at JLab, E. Chudakov
- **Pion Form Factor at high Q^2**, B. Wojtsekhowski
  Test QCD at low W high Q^2, R. Lindgren
- **Pion Form Factor at high Q^2**, B. Wojtsekhowski
  Test QCD at low W high Q^2, R. Lindgren
- **A1n with MPS**, N. Liyanage
- **SI-DIS: Transversity**, E. Cisbani
  MPS particle identification, F. Garibaldi
  6 GeV experiment, X.Jiang
  MPS experiment parameters, B. Wojtsekhowski
- **PV with MPS** - K. Paschke
- Funding status
  INFN start-up tracking project, F. Garibaldi
  MRI on GEM development for FPP, V. Punjabi
  last slide of **Experiments with recoil polarimetry**, J. Annand
- **Summary** and discussion on our **plan of actions**, E. Cisbani

SBS project meetings overview

Fourth SuperBigbite Spectrometer Meeting

March 19, 2010 - from 9:30 AM until 5:00 PM EDT
JLAB ARC 231/233
March 20, 2010 - from 10:00 AM until 12:00 PM EDT
JLAB ARC 231/233
phone lines:
877-366-0711 (US)
302-709-8446 (international)
866-627-1651 (Ca)
participant code 36791072#

- Session I: (chair: Fatiha Benmokhtar)

- 09:30 **SBS Management Perspective** , Kees De Jager (15+5)
- 09:50 **SBS Magnet, Review of Modifications, and Efforts to Acquire the Magnet** , John Le Rose (15+5)
- 10:10 **Design and status of the SBS Front Tracker** , Evaristo Cisbani (15+5)
- 10:30 **TreeSearch Track Reconstruction**, Ole Hansen (15+5)

10:50 Coffee Break

- Session II: (chair: Mahbub Khandaker)

- 11:05 **Status of GEp(5) experiment**, Mark Jones (15+5)
- 11:25 **Progress on the GEn(2) polarized He-3 target**, Gordon Cates (15+5)
- 11:45 **A summary talk on approved experiments** , B. Wojtsekhowski (15+5)
- 12:15 Group Photo at Cebaf Center (on cafeteria deck) 

12:25-1:30 Lunch

- Session III: (chair: Gregg Franklin)

- 13:30 **The HERMES RICH as SBS hadrons identification detector** , Raffaele De Leo (15+5)

Meeting in 2010

- 13:50 **MC of Cherenkov Counter (RICH system)**, Charles Hyde (15+5)
- 14:10 **DAQ & Trigger** , Ole Hansen (15+5)
- 14:35 **Deep Phi** , Eric Fuchey (20+5)

15:00 Coffee Break

- Session IV: (chair: Seamus Riordan)

- 15:15 **A1n**, Nilanga Liyanage (20+5)
- 15:40 **Measurement of the d/u ratio: update on the tritium target design**, Patricia Solvignon (20+5)
- 16:05 **Discussion**
- 19:00 Collaboration dinner: **Olive Garden**

Saturday, March 20th 2010
JLAB ARC 231/233

- Session V: (chair: Bogdan Wojtsekhowski)

- 10:00 **Design of SBS Hadron Calorimeter**, Fatiha Benmokhtar (15+5)
- 10:20 **MC simulation of Calorimeters, Counting rates**, Sergey Abrahamyan (15+5)
- 10:40 **Semi-Inclusive DIS with BB+SBS, two new physics ideas** , Andrew Puckett (20+5)
- 11:05 **Recoil-Neutron Polarimetry and New GEn Measurements in Hall-A** , John Annand (20+5)
- 11:30 **BigBite Status Report**, Aidan Kelleher (15+5)
- 11:55 **More Discussion**

SBS project meetings overview

Meeting in 2014

Monday July 7, 2014, Room F113

Session I	**Welcome and Overview**	
09:00	Brian Quinn	Welcome/Collaboration Statu
09:10	Bogdan Wojtsekhowski	SBS project overview & statu
09:25	Thia Keppel	Hall A update and beam sche
09:40	Mark Jones	SBS Project management
Session II	**Physics Updates**	
09:55	Seamus Riordan	Form Factor Experiments
	COFFEE	
10:45	Alexandre Camsonne	Double-DVCS
11:05	Paul King	Tagged Deep Inelastic Scatte
11:35	Andrew Puckett	SIDIS
	LUNCH	
Session III	**SBS Equipment I**	
13:30	Nilanga Liyanage and Kondo Gnanvo	Polarimeter GEM & electroni
14:10	Evaristo Cisbani	BigBite / SBS front-tracker C
	COFFEE	
15:10	Alexandre Camsonne	VME systems and full structu
15:40	Sergey Abrahamyan	FastBus
16:00	Seamus Riordan	Monte Carlo
	ADJOURN	
16:45		Working group on GEM reac

Tuesday July 8, 2014, Room L102 (Note change of room!!)

Session IV	**SBS Equipment II**	
09:00	Todd Averett	A1n
09:15	Gregg Franklin	HCal-J
09:35	Bogdan Wojtsekhowski	ECal
09:55		ECal Discussion
10:05	Doug Higinbotham	Bigbite Status
	COFFEE	
10:45	Gordon Cates	A1n ^{3}He Target
11:05	Todd Averett	GRINCH
11:20	John Annand	NINO/Bigbite Hodoscope
11:40	Mahbub Khandaker	Coordinate Detector
	LUNCH	
Session V	**SBS Equipment III**	
13:30	Robin Wines	SBS Magnet and Layout
14:20	Silviu Covrig	LH_2 Target
14:40	Seamus Riordan	Software
15:00	Brian Quinn	Manpower/Students/Tasks
	COFFEE	
15:40	Gordon Cates	SBS ^{3}He Target
16:00	Fulvio De Persio	Silicon Tracker
16:20	Andrew Puckett	SBS RICH
Session VI	**Collaboration Business**	
16:40	Brian Quinn	SBS Collaboration Busine
	ADJOURN	

SBS project meetings overview

Meeting in 2017

Super Bigbite Collaboration Meeting

July 13-14, 2017 at JLab (Room ARC 231/233)

Available off-site by Phone Line and by Bluejeans

US 888-240-2560
International Numbers
Bluejeans Remote Desktop

Access code: 9989030149

Thursday July 13, 2017, Room ARC 231/233

Session I	**Welcome and Overview**		**Chair: Pucket**
09:00	Seamus Riordan	Welcome / Collaboration Status	10 min
09:10	Bogdan Wojtsekhowski	SBS overview & status	20+10 min
09:40	Mark Jones	SBS Project management	15+5 min
10:00	Cynthia Keppel	Hall A and Schedule Update	20+5 min
Session II	**Experiment Updates and Student Projects**		**Chair: Jones**
10:25	John Annand	GEn/GMn by polarization Transfer	17+3 min
	COFFEE		15 min
11:00	Kijun Park	Meson Structure Function Run Group	15+5 min
11:20	Andrew Puckett	SIDIS and A1n	12+3 min
11:35	Freddy Obrecht	E02-013 Analysis	20+5 min
	LUNCH 12:00-13:30		
Session III	**SBS Installation and Equipment I**		**Chair: Quinn**
13:30	Robin Wines	SBS engineering, design, procurement	25+10 min
14:05	Kondo Gnanvo	Polarimeter GEMs	25+5 min
14:35	Evaristo Cisbani	BigBite / SBS Front-Tracker GEM	25+5 min
	COFFEE		15 min
15:20	Danning Di	GEMS - High Rate Management	18+2 min
15:40	Paolo Musico	GEM readout and DAQ	25+5 min
16:10	Doug Higinbotham	BB preparation for SBS runs	20+5 min
16:35	Bob Michaels	Fastbus Tests	17+3 min
16:55	Alexandre Camsonne	DAQ	25+5 min
	ADJOURN		

Friday July 14, 2017, Room ARC 231/233

Session IV	**SBS Equipment II**		**Chair: Wojtsekhowski**
09:00	Andrew Puckett	RICH Detector	12+3 min
09:15	Seamus Riordan	Software Progress and Tasks	20+5 min
09:40	Eric Fuchey	Tracking and Background Calculations	25+5 min
	COFFEE		15 min
10:25	Guido Urciuoli	Silicon Tracker	17+3 min
10:45	Juan Carlos Cornejo	HCal	12+3 min
11:00	Brian Quinn	HCal Electronics	15+5 min
11:20	Rachel Montgomery	RTPC Simulation for TDIS	12+3 min
11:35	Silviu Covrig	Cryo Target / ^{3}He	12+3 min
	LUNCH 11:50-13:30		
Session V	**SBS Equipment III**		**Chair: Riordan**
13:30	Caesar Jackson	ECal	25+10 min
14:05	Gordon Cates	SBS/A1n ^{3}He Targets	20+5 min
14:30	Todd Averett	GRINCH	17+3 min
14:50	Evan McClellan	GRINCH VETROC	12+3 min
	COFFEE		15 min
15:20	Rachel Montgomery	NINO / BigBite Hodoscope	12+3 min
15:35	Peter Monaghan	Coordinate Detector	17+3 min
Session VI	**GMn Preparations**		
15:55	Brian Quinn	Workforce / Students / Tasks	30 min
	ADJOURN		

SBS project meetings overview

Meeting in 2023 https://indico.jlab.org/event/721/

Agenda for July 17

08:30 Welcome -- Morning session, Chair Gordon Cates

- **8:35** (10) "Opening session" -- SBS CC chair Gordon Cates
- **8:45** (20) "Physics overview" -- Division director Thia Keppel
- **9:05** (30) "Hall A/C overview, status and plans" -- Hall A/C leader Mark Jones
- **9:35** (20) "SBS experiments engineering" Robin Wines
- **9:55** (20) "SBS experiments" B. Wojtsekhowski
- **10:15** (20) "Coffee break"
- **10:35** (25) "SBS GEp experiment" Nilanga Liyanage
- **11:00** (25) "GMn results from Hall A" Andrew Puckett
- **11:25** (25) "GMn results from Hall B" Jerry Gilfoyl
- **11:50** (70) "Lunch break"

13:00 Afternoon session I - GEp + KLL/ALL + GEn-RP, Chair Mark Jones

- **13:00** (20) "GEM system for GEn-II_b and GEp" Holly Szumila-Vance
- **13:20** (15) "ECAL for GEp" Donald Jones
- **13:35** (15) "HCAL for GEn-II_b and GEp" Jiwan Poudel
- **13:50** (20) "DAQ system for GEp" Alex Camsonne
- **14:10** (15) "ALL experiment" Rachel Montgomery (remotely)
- **14:25** (20) "GEn-RP experiment" William Tireman
- **14:45** (20) "KLL experiment" Arun Tadepalli
- **15:05** (10) "Picture of SBS Collaboration" Bill Henry
- **15:15** (15) "Coffee break"

15:30 Afternoon session II - GEn-II, Chair Nilanga Liyanage

- **15:30** (12) "GEn data analysis - 1" Gary Penman
- **15:42** (12) "GEn data analysis - 2" Hunter Presley
- **15:54** (12) "GEn data analysis - 3" Jack Jackson
- **16:06** (12) "GEn data analysis - 4" Sean Jeffas
- **16:18** (12) "GEn data analysis - 5" Faraz Chahili (remotely)
- **16:30** (25) "GEn analysis summary" Andrew Puckett
- **16:55** *Close out*

Agenda for July 18

08:00 -- Morning session-I , Chair B. Wojtsekhowski

- **8:00** (12) "GMn data analysis - 1" John Boyd (remotely)
- **8:12** (12) "GMn data analysis - 2" Maria Satnik (or Todd Averett)
- **8:24** (12) "GMn data analysis - 3" N. Lashley-Colthirst
- **8:36** (12) "GMn data analysis - 4" Provakar Datta
- **8:48** (12) "GMn data analysis - 5" Ralph Marinaro
- **9:00** (12) "GMn data analysis - 6" Sebastian Seeds
- **9:12** (12) "GMn data analysis - 7" Ezekiel Wertz
- **9:24** (12) "GMn data analysis - 8" Anu Rathnayake
- **9:36** (14) "Coffee break"

9:50 -- Morning session-II , Chair Robert Michaels

- **9:50** (20) "TDIS with SBS" Dipangkar Dutta
- **10:10** (25) "Wide Angle Compton scattering from polarized proton " David Hamilton
- **10:35** (25) "Layouts with SBS components in Hall C" S. Lassiter
- **11:00** (60) "Pseudo-PDFs and extraction of PDFs from lattice" Anatoly Radyushkin
- **12:00** (60) "Lunch break"

13:00 Afternoon session, Chair Alex Camsonne

- **13:00** (30) "SBS MC simulation and analysis system" Andrew Puckett
- **13:30** (20) "sFF at 2.5 GeV2" Kent Paschke
- **13:50** (30) "SIDIS experiment with a novel target" Gordon Cates
- **14:20** (15) "Polarized proton DIS with BB/SBS at 12 GeV" Bill Henry
- **14:35** (15) "Weak Form Factor experiment at high Q2" Bogdan W.
- **14:50** (10) "Discussions and close out" Robert Michaels
- **16:00** "Neutron runs party" - Resfac

SBS project meetings overview

Meeting in 2023

n Lab
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SBS Collaboration Meeting

SBS Collaboration Meeting
July 17 -18, 2023
Jefferson Lab
Newport News, VA United States

Participants List

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Zhang , Xiang	university of virginia	qkb5up@virginia.edu

total of 85 participants

Ph.D. student graduations by 2024, 2025, 2026

The number of graduate students on the SBS experiments (Hall A)

- UVa - 9+1
- W&M - 4+1
- INFN - 2
- HU - 1+1
- UConn - 2+1+1?
- Glasgow - 2+1
- VT - 1
- UMass - 1

GMn + nTPE:

- ✓ Vanessa Brio
- ✓ Leonard Giuseppe Re
- ✓ Ralph
- ✓ Nathaniel
- ✓ John Boyd
- ✓ Anuruddha
- ✓ Chris Jantzi
- Provakar
- Sebastian
- Faraz
- Maria
- Zeke
- Kate
- Jack
- Hunter
- Jacob
- Braian

GEn + GEn-RP

- ✓ Sean
- ✓ Gary
- Bhasitha
- Vimukthi
- Sarashowati

Agenda for SBS meeting 2024

https://indico.jlab.org/event/878/

September 12 (Thursday): 9 am – 5 pm in Auditorium

Session 1, moderator – Bob Michaels

9:00 Open remarks 10' - Bogdan

9:10 Hall A run plan for GEp and detectors* 20' – Mark Jones

9:30 Hall A design for GEp 25' – Robin Wines

9:55 Physics of the nucleon Form Factors 25' – Gordon Cates

10:20 GEp status: safety/students/manpower 25'- Evaristo Cisbani (zoom)

10:45 GEp electron arm, ECAL 25' - Donald Jones

11:10 Morning tea - 20'

11:30 GEp electron arm, CDET 20'- Peter Monaghan

11:50 Lunch

Session 2, moderator – Mark Jones

1:30 Overview/status of GMn/GEn analysis 40'- Andrew Puckett

2:10 GEn-RP/KLL analysis 20'- Jiwan Poudel

2:30 GEM trackers lessons/status 30' – Nilanga/Ching Him

3:00 He-3 target lessons/status for SIDIS 30' - Gordon Cates

3:30 Afternoon tea - 20'

3:50' DAQ lessons/status 30' – Alex Camsonne

4:20 HCAL lessons/status 20' – Jiwan Poudel

Session 3, moderator – Michael Kohl

8:30 SBS layout in Hall C 30' - Steve Lassiter

9:00 SBS in Hall C - physics to do: SIDIS 20' – Andrew Puckett

9:20 SBS in Hall C - physics to do: TDIS 20' - Rachel Montgomery (zoom)

9:40 SBS in Hall C - physics to do: pol WACS 20' – Gabriel Niculescu

10:00 Morning tea + Photo -30'

10:30 Neutrino recent experiment and AVFF 20' - Michael Kordosky

10:50 SBS in Hall C - physics to do: sFF 20' - Kent Paschke

11:10 New physics to do: Axial-Vector FF 20' – Jim Napolitano

11:30 More physics: ϕ–meson electro-production 20' - Charles Hyde

11:50 Lunch

Session 4, moderator – Alex Camsonne*

1:30 Combined report from all GMn Ph.D. students 30' – Provakar Datta

2:00 Combined report from all GEn Ph.D. students 30' – Hunter Presley

Poster session, organizer - Eric

2:30 for 90'

4:30 Collaboration Party in ResFac 3 h

September 14 (Saturday): 8:30 am – 11:30 am in room L102

Session 5 (Axial-Vector Form Factor), moderator - Bogdan

8:30 Summary of LOI with key numbers - Jim Napolitano

9:00 Weak interaction theory and neutrino physics - Aaron Meyer

9:30 Current status of MC work - Weizhi Xiong (zoom)

10:00 Morning tea – 30'

10:30 Detector technology for high resolution TOF - Daniel Carman

11:00 The proposal for PAC53, scope, work to do - Todd Averett