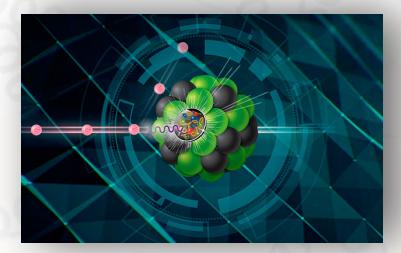


Closing remarks EICUG 2nd YR Workshop - Pavia Workshop May 22, 2020

Rolf Ent (JLab) & Marco Radici (INFN Pavia) & Bernd Surrow (Temple University) & Thomas Ullrich (BNL)

On behalf of the EICUG Steering Committee



EICUG 2nd YR Workshop "Pavia Workshop" Philadelphia, PA, May 22, 2020



- Activities of YR effort in full swing!
- JR Working Groups:

Thank you to all conveners, coconveners and WG members!

- O Detector Working Group: <u>http://www.eicug.org/web/content/yellow-report-detector-working-group\</u>
 - Conveners: Ken Barish, Tanja Horn, Peter Jones, Silvia Dalla Torre
 - WG's (9): Tracking, Particle ID, Calorimetry, Far-Forward Detectors, DAQ/Electronics, Polarimetry/Ancillary
 Detectors, Central Detector/Integration & Magnet, Forward Detector/IR Integration, Detector Complementarity
- Physics Working Group: <u>http://www.eicug.org/web/content/yellow-report-physics-working-group</u>
 - Conveners: Adrian Dimitru, Olga Evdokimov, Andreas Metz, Carlos Munoz Camacho
 - WG's (5): Inclusive Reaction, Semi-Inclusive Reactions, Jets & Heavy Quarks, Exclusive Reactions, Diffractive
 Reactions and Tagging
- Software Working Group: <u>http://www.eicug.org/web/content/eic-software</u>
 - Conveners: Andrea Bressan, Markus Diefenthaler, Torre Wenaus



(Some) take-away messages 2nd YR meeting @ Pavia

- Lots of efforts and progress since 1st YR meeting @ Temple!
- The EIC continues to have an *excellent and growing* science case
- This science points to a *uniquely versatile* accelerator, IR and detector design
- All stakeholders agree that a second IR and detector is desirable we had a nice complimentary detector and accelerator/IR session to continue this goal
- We need a hermetic detector for our science, with more space and less material...
 - In the central detector, forward rapidity region: EM/hadron calorimetry and tracking seem space starved, and Pld is space hungry
 - In the central detector, mid-rapidity region space also at a premium: an all-Si or mostly-Si with some gaseous based layers could provide some space
 - We need good e/π separation for much of our electron-scattering science
 - We need detectors along the far-forward beam line (EMCal after B0, an offmomentum detector, EMCal and tracking before ZDC, large ZDC with good resolution, etc.) – requirements are refining!
- We start worrying more about integration topics, this is a good sign
 - We saw less separate and more integrated parallel session topics this YR meeting
 - $\circ~$ We saw progress on central and forward detector integration topics
 - $\circ~$ Need to document hand-off detector interactive matrix between PWG and DWG
- On for more at the 3rd YR meeting @ CUA!!!

Goal set for 3rd YR Workshop:

"Present mature studies of detector requirements from physics processes, balance detector concepts versus impact on physics measurements. Discuss possible systematics reduction among complementary detector choices. Complete final "todo" list for YR(s)."



- Summer EICUG Meeting: <u>https://indico.bnl.gov/event/7352/</u>
 - August 3-7, 2020
 - SC in close contact with local organizers: Wim Cosyn, Lei Guo, Misak Sargsian (contact)
 - Will assess situation at the end of May and determine to either host or postpone meeting!
- Workshop schedule:
 - 3rd YR Workshop 17-19 September 2020, CUA Washington D.C. (USA)
 - 4th YR Workshop 19-21 November 2020, UCB Berkeley (USA)



Charter

EICUG Charter: <u>http://www.eicug.org/web/sites/default/files/EICUG-</u> <u>Charter-01122018.pdf</u>

"When wording of a CDO mission statement for the EIC project has been decided by the funding agencies, the SC chair will appoint a new charter committee whose members will, within 6 months of its formation, present a draft charter for Phase 2 to be approved by two-thirds majority of the IB."

 New charter writing committee: John Arrington (Argonne Nat. Lab. - US), Will Brooks (USM Valparaiso, Chile), Olga Evdokimov (Univ. of Illinois, Chicago - US), Yuji Goto (RIKEN, Japan), Barbara Jacak (LBNL & Univ. California at Berkeley - US), Richard Milner (MIT - US) (Co-chair), Marco Radici (INFN Pavia, Italy), Franck Sabatié (Saclay, France) (Co-chair), Sevil Salur (Univ. Rutgers - US) and Daria Sokhan (Univ. Glasgow, UK)



Upcoming Elections

Current terms:

http://eicug.org/web/content/electron-ion-collider-users-group-eicug

- Upcoming elections:
 - The Committee has started to work on the upcoming election for the office

of International Representative on the EICUG Steering Committee.

- The new term will start on July 1st, 2020. Yuji Goto has agreed to continue in his present term until June 30th, 2020.
- The nomination and election process started in April 2020.
- Call for nominations was sent out!



Expression of Interest Timeline

(non-binding) Expressions of Interest (EoI) to get guidance on detector scope

March 2020 Introduce concept and timeline for Call for Expressions of Interest (introduce notion for Expressions of Interest for contribution to EIC detectors in plenary talks at 1stYellow Report (remote) meeting at Temple) Discussion Call for Eol for potential cooperation to EIC Detectors initial discussion session at Remote EICUGM April 23 2020 May 20 2020 final discussion at 2nd Yellow Report meeting at Pavia May 31 2020 Call for Eol for potential cooperation to EIC Detectors (issue call after folding in feedback of EICUG) **Deadline Eol for potential cooperation to EIC Detectors** November 1 2020 Status report at 4th (final) Yellow Report meeting at UCB/LBL November 19-21 2020 (Request for discussion session at 4th Yellow Report meeting on 2nd IR ideas based on YR and Accelerator Task Force status) Evaluate Eol and inform Call for Detector Proposal(s) February 2021 (complete after assumed January 2021 Yellow Report completion, Eol can give guidance on detector scope) 2nd Yellow Report Meeting at Pavia, May 20th 2020

Elke Aschenauer and Rolf Ent



Timeline beyond Expression of Interest

Assumption: Goal: CD-1 aligned with accelerator timeline CD-2 & CD-3 also aligned!

Request Topical week-long workshop on 2nd IR early February 2021 (accelerator discussion and science discussion on 2nd IR goal and needs such that we can potentially integrate in Call for Detector Proposals) Form EIC Collaboration(s) Issue Call for Detector Proposals March 2021 (consistent with EICUGM assumptions of early 2021) **Deadline for Proposals** September 2021 (roughly in phase with projected CD-1 date) **Detector Advisory Committee Meeting** November 2021 (to guide work in TEC phase) Selection of Detector(s) December 2021 (one or two, pending Expression of Interest response) CD-2 September 2022 CD-3 September 2023 (CD-2 and CD-3 dates assumed for planning purposes) Note: time to complete >80% of the full engineering & design for detector at CD-3 is ight, so we need to keep the YR efforts in motion for completion in January

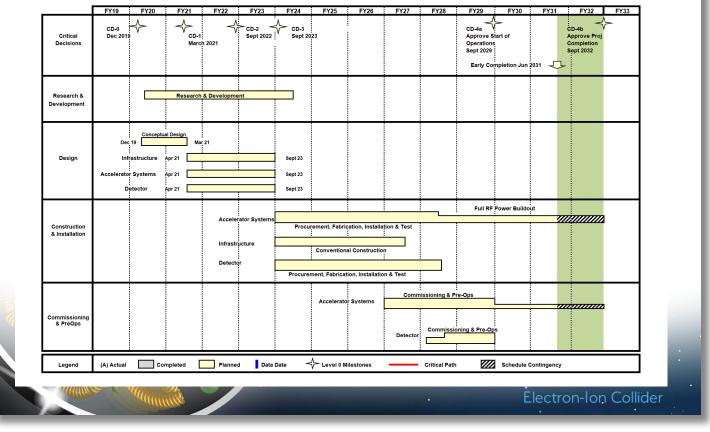
2nd Yellow Report Meeting at Pavia, May 20th 2020

Elke Aschenauer and Rolf Ent



Anticipated CD schedule

Reference Schedule



Jim Yeck

EICUG 2nd YR Workshop "Pavia Workshop" Philadelphia, PA, May 22, 2020

Recording the session

2nd EIC Yellow Report Workshop at Pavia University

20-22 May 2020

Online

US/Eastern timezone

Overview	Recording	
Remote Login Instructions Timetable	Wednesday, May 20: click here	
Open mic session	Thursday, May 21: Parallel sessions, morning: • - Forward detector/IR & central detector • - Diffractive reactions and Tagging WG • - Calorimeter & Particle ID & Tracking - part 1 • - Calorimeter & Particle ID & Tracking - part 2 • - Exclusive Reactions	
Accel./IR design: Q. & A. session		work in progress
Recording		
Contribution List		
My Conference		
My Contributions	Joint sessions, morning:	
	 Diffractive&Tagging + Exclusive joint session Inclusive+SIDIS+Jets&HQ joint session 	
	Cross-joint sessions, afternoon:	
	 Diffractive&Tagging + Exclusive with DWG Inclusive+SIDIS+Jets&HQ with DWG 	

Friday, May 22: click here

EICUG 2nd YR Workshop "Pavia Workshop" Philadelphia, PA, May 22, 2020



- We are in the middle of a world health crisis Please take good care of yourself / your loved ones, friends and colleagues!
- Many of us continue to work from home hopefully we can go back to our offices / labs soon.
- Let's continue to remain in close contact through regular remote video conference meetings - The EIC Yellow Report activity will and should focus our attention on what unites us moving forward in this difficult time!



EICUG 2nd YR Workshop "Pavia Workshop" Philadelphia, PA, May 22, 2020 Rolf Ent, Marco Radici, Bernd Surrow and Thomas Ullrich

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Thank you!

Graduate students: Navagyan Ghimire, Bianca Gualtieri, Nicholas Lukow, Jae Nam and Babu Pokhrel

and Amilkar Quintero and Matt Posik

for helping out with ZOOM reservation!

Physics Vieltow Réporte "Rame" Workstoppe

May, 20-22, 2020

form factors TMD GPD





 $PDF \rightarrow$

Marco Radici Bernd Surrow

Local Organizing Committee EICUG Steering Committee

EICUG 2nd YR Workshop "Pavia Workshop" Philadelphia, PA, May 22, 2020