



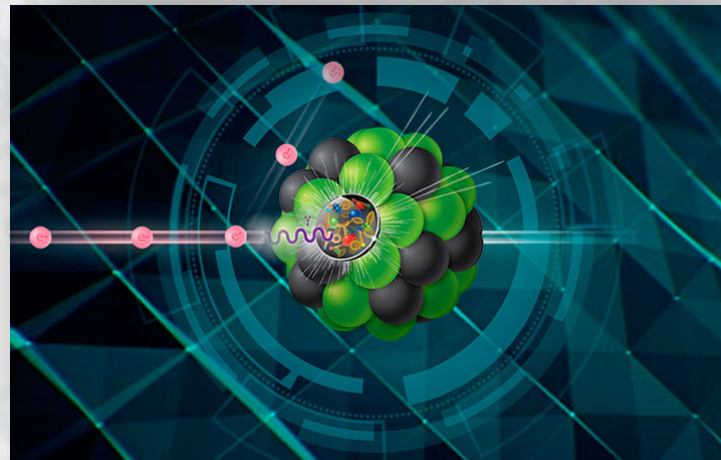
Yellow Report

Status & Overview

Bernd Surrow



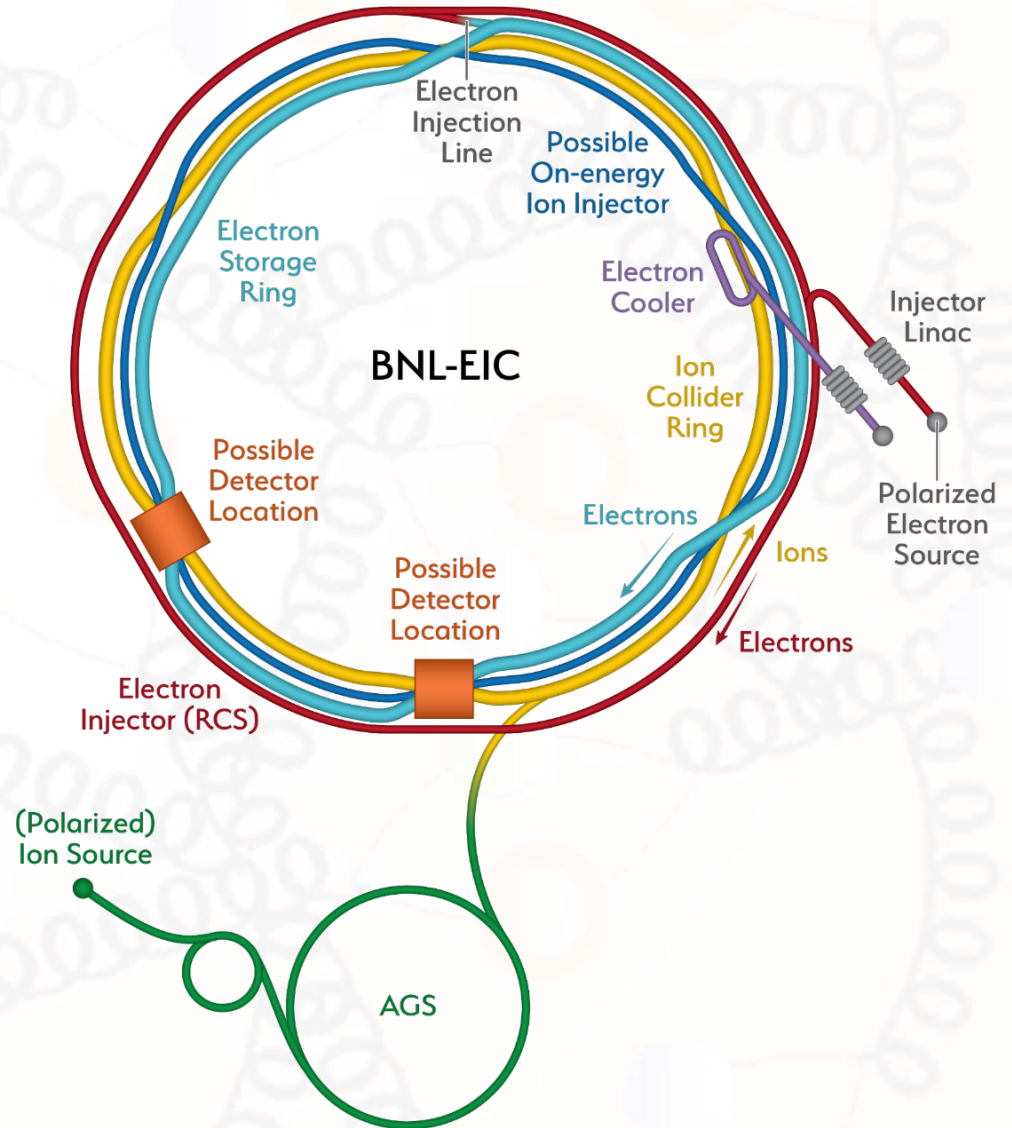
On behalf of the EICUG Steering Committee



Outline

- Acknowledgement
- Status / Outline of YR
- Author Policy
- YR Cover Competition

Note: Timeline will be presented
incl. discussion session by Thomas
Ullrich tomorrow, Saturday,
November 21!





Acknowledgement - Physics / Detector WGs

□ Physics Working Groups

- Adrian Dumitru (Baruch College / CUNY, New York, NY)
- Olga Evdokimov (University of Illinois at Chicago, Chicago, IL)
- Andreas Metz (Temple University, Philadelphia, PA)
- Carlos Munoz (IPN-Orsay, Orsay, France)

□ Detector Working Groups

- Ken Barish (University of California at Riverside, Riverside, CA)
- Tanja Horn (Catholic University of America, Washington D.C.)
- Peter Jones (University of Birmingham, Birmingham, UK)
- Silvia Dalla Torre (University of Trieste and INFN Trieste, Trieste, Italy)



Acknowledgement - Physics sub-WGs

□ Physics Sub Working Groups:

<http://www.eicug.org/web/content/yellow-report-physics-working-group>

Inclusive Reactions:

- Conveners: Renee Fatemi (Kentucky), Nobuo Sato (JLab), Barak Schmookler (Stony Brook)

Semi-inclusive Reactions:

- Conveners: Ralf Seidl (RIKEN), Justin Stevens (W&M), Alexey Vladimirov (Regensburg), Anselm Vossen (Duke), Bowen Xiao (CCNU, China)

Jets, Heavy Quarks:

- Conveners: Leticia Mendez (ORNL), Brian Page (BNL), Frank Petriello (ANL & Northwestern U.), Ernst Sichtermann (LBL), Ivan Vitev (LANL)

Exclusive Reactions:

- Conveners: Raphaël Dupré (Orsay), Salvatore Fazio (BNL), Tuomas Lappi (Jyvaskyla), Barbara Pasquini (Pavia), Daria Sokhan (Glasgow)

Diffraction Reactions & Tagging:

- Conveners: Wim Cosyn (Florida), Or Hen (MIT), Doug Higinbotham (JLab), Spencer Klein (LBNL), Anna Stasto (PSU)



Acknowledgement - Detector sub-WGs

□ Detector Sub Working Groups

<http://www.eicug.org/web/content/yellow-report-detector-working-group>

- **Tracking (+vertexing):** Conveners Kondo Gnanvo (UVA), Leo Greiner (LBNL), Domenico Elia (INFN)
- **Particle ID:** Conveners Tom Hemmick (SBU), Patrizia Rossi (JLab)
- **Calorimetry (EM and Hadronic):** Conveners Vladimir Berdnikov (CUA), Eugene Chudakov (JLab)
- **Far-Forward Detectors:** Conveners Alexander Jentsch (BNL), Michael Murray (Kansas)
- **DAQ/Electronics:** Conveners Andrea Celentano (INFN), Damien Neyret (CEA Saclay)
- **Polarimetry/Ancillary Detectors:** Conveners Elke Aschenauer (BNL), Dave Gaskell (JLab)
- **Central Detector/Integration & Magnet:** Conveners William Brooks, Alexander Kiselev (BNL)
- **Forward Detector/IR Integration** Convener Yulia Furletova (JLab)
- **Detector Complementarity:** Conveners Elke Aschenauer (BNL), Paul Newman (Birmingham)



Acknowledgement - Workshops/Meetings

- Workshop series in 2020
 - Kick-Off meeting: December 12-13, 2019, MIT, Cambridge, MA (In-person)
 - **1st Workshop**: March 19-21, 2020, Temple University, Philadelphia, PA (Virtual)
 - **2nd Workshop**: May 22-24, 2020, University of Pavia, Pavia (Italy) (Virtual)
 - Status reports at Summer EICUG Meeting: August 3-7, 2020, FIU, Miami, FL
(Virtual)
 - **3rd Workshop**: September 16-18, 2020 CUA, Washington, DC (Virtual)
 - **4th Workshop**: November 19-21, 2020, LBL, Berkeley, CA (Virtual)



Acknowledgement

Big Thanks to **Rolf Ent** and **Thomas Ullrich**
for their leadership in pulling all of this
together!



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YR discussion - Friday Agenda

YR Content

11:00	Yellow Report status/overview (15+10)	Bernd Surrow	11:00 - 11:25
	Accelerator/IR overview (15+5)	Angelica Drees	11:25 - 11:45
	Discussion of YR content: Tracking (15+5)	Leo Greiner	11:45 - 12:05
12:00	Discussion of YR content: Calorimetry (15+5)	Alexander Bazilevsky	12:05 - 12:25
	Break		12:25 - 12:40
	Discussion of YR content: PID (15+5)	Thomas Hemmick	12:40 - 13:00
13:00	Discussion of YR content: Magnetic field strength, magnet bore (15+5)	Dr E. C. Aschenauer et al.	13:00 - 13:20
	Discussion of YR content: Far-forward detectors (15+5)	Alexander Jentsch	13:20 - 13:40
	Discussion of YR content: Readout and DAQ (15+5)	Andrea Celentano et al.	13:40 - 14:00
14:00	Discussion of YR content: Software (15+5)	Dr Markus Diefenthaler	14:00 - 14:20
	Break		14:20 - 15:20
15:00	Yellow Report content: section 7.1 (15+5)	Barbara Pasquini et al.	15:20 - 15:40
	Yellow Report content: section 7.2 (15+5)	Anselm Vossen	15:40 - 16:00
16:00	Yellow Report content: section 7.3 (15+5)	Spencer Klein	16:00 - 16:20
	Yellow Report content: section 7.4 (15+5)	Ivan Vitev	16:20 - 16:40
	Break		16:40 - 17:00
17:00	Complementarity: Optimizing luminosity at lower c.m. energy (10+5)	Yuhong Zhang	17:00 - 17:15
	Complementarity: 2nd IR design considerations (10+5)	Vasily Morozov	17:15 - 17:30
	Complementarity: 2nd IR Workshop (10+5)	Latifa Elouadrhiri et al.	17:30 - 17:45
	Complementarity: YR content and discussion (10+20)	E. C. Aschenauer	17:45 - 18:15
18:00			



Author policy

Author policy Draft: EICUG Yellow Report
October 21, 2020

(1) Author team:

The **author team** consists of an **inclusive list of EICUG members who contributed to the Yellow Report studies and writing process**. The author team will be listed once for the complete Yellow Report (or perhaps once per Volume for arXiv purposes), with no further authorship names in sections or sub-sections. This is meant to highlight that the YR report is a community effort giving explicit credit upfront to all individuals of the author team.

Physics and detector sub-working group conveners should compile the authorship list by asking on a public, working group mailing list to respond to a call for author list compilation asking for the following information: Last Name, First Name, Email address, and Name of institution. Using Microsoft / Google Forms will ease the process of collecting and compiling an inclusive list. This list should then be forwarded to the physics and detector working group conveners who compile the final author team list, which should be as inclusive as possible acknowledging the work from any EICUG member who presented ideas, studies, and participated in the writing process.

(2) Committee members:

In addition to listing the author team, we plan to separately list (highlight) in the early parts of the Yellow Report the following conveners and committees:

- Physics working group and sub-working conveners
- Detector working groups and sub-working conveners
- Software working group
- Steering Committee

(3) Acknowledgement:

An **acknowledgement section** is added including all individuals who provided guidance and input not listed in the author team list. This acknowledgement section should be compiled by the physics and detector working group with input from each sub-working group.



Author policy

Appendix: Template for Author Team / Committee list

EIC Users Group

YR Author Team

NN

Physics working group and sub-working conveners (Separated by WG)

NN

Detector working groups and sub-working conveners (Separated by WG)

NN

Software working group

NN

Steering Committee

NN



YR Cover Competition

- YR Cover Competition
 - 11 proposed cover designs
 - WWW-link: https://wiki.bnl.gov/eicug/index.php/Yellow_Report_Cover_Design
- We want to hear from you!
 - Select your top 3 cover designs, e.g.: 1, 2, 3
 - Go to [YR Cover Competition page](#) and submit your preferred cover design:
 - EIC Yellow Report Cover Access Code: eic2030
 - High: Submit numerical score 1-11, excluding Medium/Low option, e.g. 1
 - Medium: Submit numerical score 1-11, excluding High/Low option, e.g. 2
 - Low: Submit numerical score 1-11, excluding High/Medium option, e.g. 3
 - Deadline: Friday, November 20, 2020, 11:59PM (EST)
 - Announcement will be made on Saturday morning, November 21, 2020!

Summary

□ Thank you!

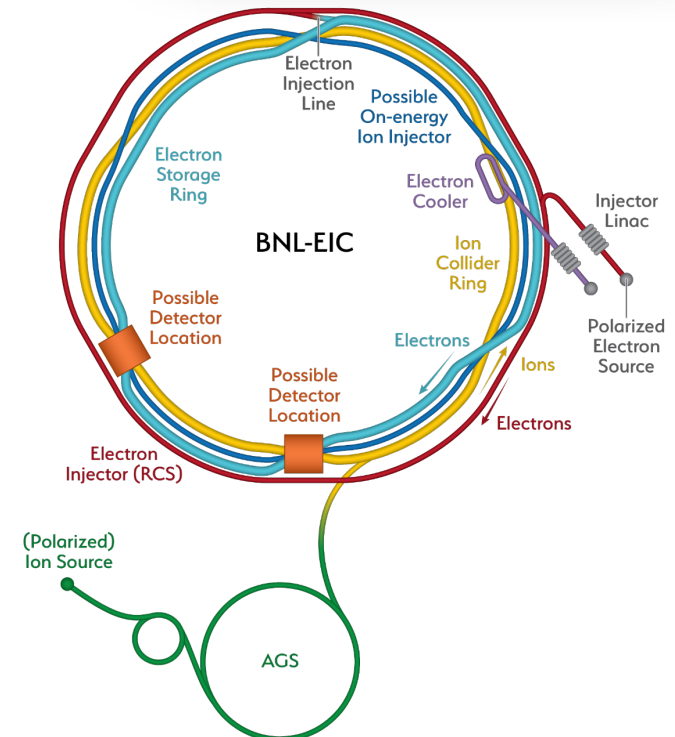
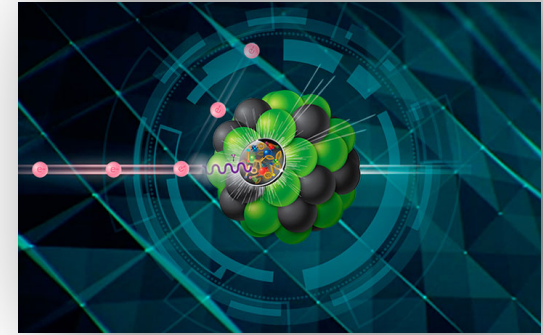
Thank you to all of you who contributed to this enormous **EIC community YR effort!**

- The SC has identified a **list of readers** who will be contacted for their availability to read the document in January 2021.

- Thomas Ullrich will discuss the **timeline** and lead a dedicated discussion on Saturday morning.

- Do not forget to respond to the **YR Cover**

Competition - Thank you to all of you who submitted a proposed cover design.





Backup

Yellow Report Timeline

J. Arrington (LBL), 4th EIC YR Workshop

Updated from timeline shown at CUA meeting

- November 1 - November 18 SC starts assembly of independent review team (readers)
- November 18 Full Yellow Report draft available
- **November 19-21** **4th YR workshop: Present status, discuss content, finalize plans**
- November 22 - December 20 Editing by Steering Committee, Conveners and Sub-conveners
- December 21 - January 3 Period of web-based EICUG community input
- January 3 - January 10 Editing of Yellow Report(s) folding in community input
Release draft Yellow Report on EICUG web pages
- **January 10 - January 31** **Independent team reads and comments**
- **February 1 - February 15** **Final editing of Yellow Report(s) to fold in reader comments**
- **February 22** **Release of Yellow Report(s) including putting on arXiv**

Previous plan had community input and independent review team in parallel; Jan 15 release