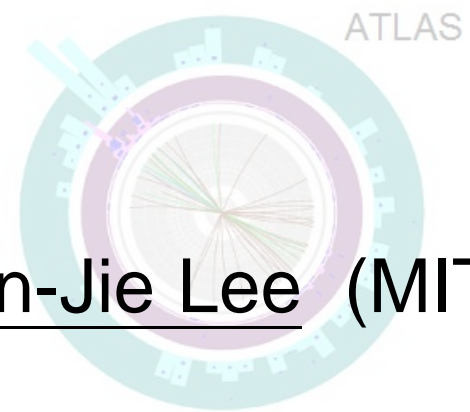
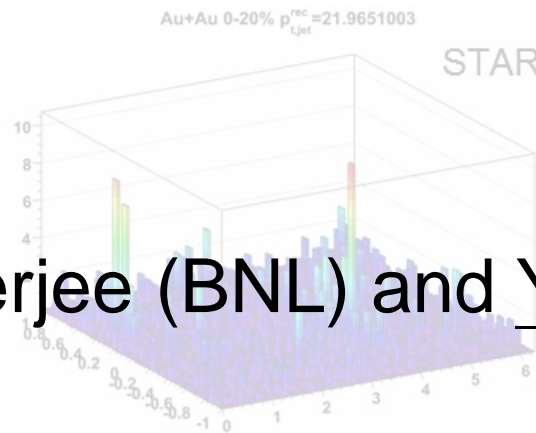


# News



Swagato Mukherjee (BNL) and Yen-Jie Lee (MIT)



Snowmass EF07 Meeting  
November 23, 2020



# Snowmass Report

- Page Length: ~500 pages
  - audience: Snowmass community including P5 Committee
1. Snowmass Summary Report (~50 pages)
  2. Frontier Summaries (~400 pages with 10 Frontiers)
  3. Multi-Frontier Topic Summaries (~50 pages)

# Structure

Contributed papers



Subgroup Reports / Proceedings



Energy Frontier Report



Snowmass Report

# Snowmass Summary Report

- Page Length - ~50 pages
- audience: Snowmass community, science community, funding agencies
- Content:
  1. Executive Summary: ~10 pages including 2-page Intro for the public
  2. Introduction
  3. 10 Frontier Executive Summaries
  4. Executive Summaries of Multi-Frontier Topics
  5. Conclusion

# Frontier Report

- audience: Frontier / Topical Group Snowmass community
- Each Frontier Report consists of
  1. **Frontier Summary:**
    - < ~50 pages (including “Subgroup” summaries, a few pages from each subgroup)
    - **FOR EF:** group “subgroup” the summaries according to broad themes: EWK, Strong Interactions, BSM and Heavy Ions, addressing also the overlaps across them.
    - **Authors:** EF conveners and EF-TG conveners
  2. **Subgroup Group Reports**

# Status & Important Dates

Status: Working toward contribute papers

- The final output will be:
  - EIC proceedings (jointed EF05-7 effort)
  - HI proceedings (EF07 + contributions from other EF groups)
- Part of the Snowmass report

Important dates:

- First draft of Topical Group summaries due March 2021
- Final version of written documents due July 2021 Final meeting: July 11-20, 2021 (UW-Seattle) <https://indico.fnal.gov/event/22303/>
- Studies must have concluded before this meeting, and the WG reports finalized
- Updated documents (including Lols) due in November 2021


# Snowmass Timeline

## EF Specific

### Preliminary Snowmass Timeline / Process




# EF07 Meetings

- Alternate between Monday and Tuesday (3:30-5:00 Eastern Time) except some of the weeks due to the availability of the topic coordinators
- Meeting agenda
  - 9/28 (Mon) EIC EW & BSM (3:30-5PM Eastern time)**
  - 10/13 (Tue) Joint EF6-7 UPC in HIC (3:30-5PM Eastern time)**
  - 10/20 (Tue) EIC HF (3:30-5PM Eastern time)**
  - 10/21 (Wed) Joint EF6-7 EIC Saturation (10-12 Eastern time)**
  - 10/28 (Wed) Joint EF6-7 EIC TMDs (10-12 Eastern time)**
  - 10/28 (Wed) Small system (4:30-6 PM Eastern time)**
  - 11/2 (Mon) Heavy flavor in HIC (3:30-5PM Eastern time)**
  - 11/9 (Mon) EIC Jets**
  - 11/11 (Wed) Joint EF6-7 EIC polarized and nuclear PDFs**
  - 11/17 (Tue) Jets in HIC (3:30-5PM Eastern time)**
  -  **11/23 (Mon) EW & nPDF (3:30-5PM Eastern time)**
- Tentative agenda (to be confirmed after consultation with the EF07 topic coordinators)
  - 12/7 (Mon) UPC & BSM (TBC)
  - 12/15 (Tue) Small system (TBC)










# Agenda Today

## EF07: EW & nPDF in HIC

 Monday Nov 23, 2020, 3:30 PM → 5:00 PM US/Eastern

**Description** Zoom meeting room: <https://mit.zoom.us/j/93875973055?pwd=Um54SUZSZHJGbGpJSkF4ckc0U0t2UT09>

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<b>3:30 PM</b>	→ 3:40 PM	<b>News</b>	🕒 10m 
<b>Speakers:</b> Swagato Mukherjee (BNL), Yen-Jie Lee (Massachusetts Institute of Technology)			
<b>3:40 PM</b>	→ 4:00 PM	<b>Future of nuclear PDF, EPPS perspective</b>	🕒 20m 
<b>Speaker:</b> Petja Paakkinen (Santiago de Compostela University, IGFAE)			
<b>4:00 PM</b>	→ 4:20 PM	<b>Future of nuclear PDFs: TUJU19 perspective</b>	🕒 20m 
<b>Speaker:</b> Ilkka Helenius (Jyväskylä University)			
 snowmass2021_EF...			
<b>4:20 PM</b>	→ 4:40 PM	<b>EW and nPDF in HIC experiments</b>	🕒 20m 
<b>Speaker:</b> Andre Govinda Stahl (Rice University (US))			
<b>4:40 PM</b>	→ 5:00 PM	<b>Discussion: Status and plan for the contributed paper</b>	🕒 20m 
<b>Speakers:</b> Georgios Konstantinos Krintiras (The University of Kansas (US)), Hannu Paukkunen (University of Jyväskylä), Émilien Chapon (IHEP / CAS)			
 Lol			

See also: EF06/EF07 meeting on polarized and nuclear PDFs

<https://indico.fnal.gov/event/45583/>

Where the nCTEQ, and nNNPDF perspectives are presented there

- Backup slides

# EF07 Online workshop

- 11-15 Jan, 2021: EIC workshop
- Early February HIC workshop (TBD)

# LoI @ EIC

- **LoI submission coordinators assigned**
  - **Heavy Flavor @ EIC:** Xin Dong (LBL), Stephen Sekula (SMU), Ivan Vitev(LANL)
  - **Proton tomograph @ EIC for HEP applications:** Timothy Hobbs (SMU), Salvatore Fazio (BNL), Alexey Prokudin (PSU), Alessandro Vicini (Milan)
  - **Glue saturation @ EIC:** Tuomas Lappi (Jyvaskyla), Soeren Schlichting (Bielefeld), Renaud Boussarie (BNL), Bjoern Schenke (BNL)
  - **EW&BSM @ EIC:** Yulia Furletova (JLAB), Ciprian Gal (SBU), Claire Gwenlan (Oxford)
  - **Jets @ EIC:** Miguel Arratia (UCR), Zhong-Bo Kang (UCLA), Stefan Prestel (Lund)
- **Discussed on August 4<sup>th</sup>**
- **Follow up discussion on August 21**

- **LoI submission coordinators assigned**
  - Search for New Physics with Heavy Ion Beam: Marco Drewes (Theory) and Andrea Giammanco (CMS).
  - Quarkonia and exotic hadron production in relativistic heavy ion collisions: Matthew Durham (LHCb) and Xiaojun Yao (Theory)
  - Ultra Peripheral Heavy Ion Collisions: Zhangbu Xu (STAR), Jian Zhou (Theory), Mariusz Przybycien (ATLAS/ZEUS)
  - High Density QCD in Small Collision Systems: Jaki Noronhahostler (Theory), Wei Li (CMS/STAR), Dennis Perepelitsa (ATLAS/sPHENIX)
  - Heavy Flavor Production in Heavy Ion Collisions: Gian Michelle Innocenti (ALICE), Jing Wang (CMS), Jin Huang (sPHENIX)
  - Jet and Jet Substructure in Heavy Ion Collisions: James Mulligan (ALICE), Leticia Cunqueiro Mendez (ALICE), Yi Chen (CMS), Anne Sickles (ATLAS)
  - EW Physics in Heavy Ion Collisions and the Impact to nuclear PDF: Hannu Paukkunen (Theory), Georgios Krintiras (CMS) and Emilien Champon (CMS)
- Discussed on 8/20.

# Contribute Papers (April 1, 2020 – July 31, 2021)

- Papers submitted to the Snowmass 2021 Proceedings. These papers may include white papers on specific scientific areas, technical articles presenting new results on relevant physics topics, and reasoned expressions of physics priorities, including those related to community involvement.
- Submitted papers will remain part of the permanent record of Snowmass 2021. More ephemeral articles, including the 2-page “Letters of Interest” requested by the DPF, should be presented through a different process, [explained here](#).

<https://snowmass21.org/submissions/start>