

## Mon, January 22

9:00 AM

### **Session: Session 1**

Location: CFNS, C120, Peter Paul Seminar Room - C120, Center of Frontiers in Nuclear Science, Stony Book University CFNS is located at Level C of Physics Building.

**Convener:** Dima Kharzeev

09:00 - 10:00 (Remote) The string-junction and its high-energy implications

Speaker

Dr Gabriele Veneziano

10:00 - 10:30 Coffee Break

10:30 - 11:00

(Remote) Classical non-planar stable motions of the baryon- and tetraquark strings

**Speaker** 

Xavier Artu

11:00 - 11:30 (Blackboard) Comments on the Baryon Junction Effective Theory

**Speaker** 

Zohar Komargodski

11:30 - 12:00

Signatures of baryon junctions in semi-inclusive deep inelastic scattering

David Frenklakh, Wenliang Li

12:00 PM 1:30 PM

## Session: Session 2

Session

Location: CFNS, C120, Peter Paul Seminar Room - C120, Center of Frontiers in Nuclear Science, Stony Book University CFNS is located at Level C of Physics Building.

Convener: Zhangbu Xu

13:30 - 14:10 Recent STAR Results on Baryon Number Carrier

Speaker

Rongrong Ma

14:10 - 14:40

(Cancelled) ALICE results on baryon transport and baryon number carrier

**Speaker** 

Karel Safarik

14:40-15:10 What have we learned from BRAHMS on baryon stopping?

Flemming Videbaek

15:10 - 15:30 Coffee Break

15:30 - 16:00 Baryon production in A Multi-Phase Transport (AMPT) model Speaker Zi-Wei Lin 16:00 - 16:30 (Remote) Study of baryon and charge transport with UrQMD model Speaker Zebo Tang 16:30 - 17:00 Simulating baryon transport Speaker Bjoern Schenke 5:00 PM

# Tue, January 23

9:00 AM

**Session: Session 3** 

Session

Location: CFNS, C120, Peter Paul Seminar Room - C120, Center of Frontiers in Nuclear Science, Stony Book

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**Convener:** Nicole Lewis

09:00 - 09:35

(Remote) Baryon Stopping and the Valence Quark Distribution at Small x

Speaker

Yuri Kovchegov

09:35 - 10:10 Proton fragmentation in high-energy collisions

Speaker

Adrian Dumitru

10:10 - 10:40 Coffee Break

10:40 - 11:10 (Remote) Very forward phenomena in pA and UPC

Speaker

Mark Strikman

11:10-11:40 Baryon production in PYTHIA

Speaker

Leif Lönnblad

11:40 - 12:00 **Discussions** 

12:00 PM 1:30 PM

**Session: Session 4** 

Session

Location: CFNS, C120, Peter Paul Seminar Room - C120, Center of Frontiers in Nuclear Science, Stony Book

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Convener: Prithwish Tribedy

13:30 - 14:00

(Remote) Backward meson production at high energies: Connection with baryon stopping, and experimental prospects

Speaker

Spencer Klein

14:00 - 14:30 Baryon production at HERA

Speaker

Henry Klest

14:30-15:00 Opportunities at EIC for testing baryon number carrier

Speaker

Dr Niseem (Magdy) Abdelrahman

15:00 - 15:30

### Short remarks: Baryon stopping in photo-process from EMC to UPC to LHC

#### Speaker

Zhangbu Xu

3:30 PM 3:50 PM

### **Session: Session 5**

Session

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Convener: Wenliang Li

15:50 - 16:25 **GPDs** 

Speaker

Simonetta Liuti

16:25 - 17:00 u-channel Exclusive Electroproduction at Jefferson Lab

Speaker

Garth Huber

17:00 - 17:30

Transition Distribution Amplitudes and hard exclusive reactions with baryon number transfer

Speaker

Kirill Semenov Tian-Shansky

6:00 PM

# Wed, January 24

9:00 AM

# Session: Session 6

Location: CFNS, C120, Peter Paul Seminar Room - C120, Center of Frontiers in Nuclear Science, Stony Book University CFNS is located at Level C of Physics Building.

Convener: Chun Shen

09:00 - 09:40 (Remote) Baryon fluctuation in baryon rich QCD matter

Speaker

Bedanga Mohanty

09:40 - 10:10

Baryon, strangeness and electric charge fluctuation in heavy-ion collisions

Speaker

Almaalol Dekrayat

10:10 - 10:40 Coffee Break

10:40-11:10 Baryon Stopping: Nucleon Decelerating vs String Junction Breaking

Speaker

Lipei Du

11:10 - 11:40

New ansatz on baryon deposition & phenomenology of heavy ion collisions

**Speaker** 

Sandeep Chatterjee

11:40-12:00 (Remote) Short Remarks: Baryon production in HIJING B/B-bar

Speaker

Rene Bellwied

12:00 PM 1:30 PM

### Session: Session 6

**Session** 

Location: CFNS, C120, Peter Paul Seminar Room - C120, Center of Frontiers in Nuclear Science, Stony Book

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Convener: Jaki Noronha-Hostler

13:30 - 14:00 Baryon Stopping Models

**Speaker** 

Gregoire Pihan

14:00 - 14:30

Baryon structure and charmonium production in high multiplicity proton-proton collisions

Speaker

Fernando Navarra

14:30 - 15:00 Multistrange baryons

Speaker
Huan Huang

15:00-15:30 Coffee Break

15:30-15:50 Short Remarks: Multistrange baryons
Speaker
Tommy Tsang

15:50-16:10 Short Remarks: Interpretations of u-channel Cross Sections
Speaker
Zachary Sweger

16:10-16:30 Short Remarks: Future experimental plans on baryon carrier search
Speaker
Prithwish Tribedy

16:30-17:00 Concluding Remarks/Discussions/White-paper
Speaker
Dima Kharzeev

5:10 PM