

# **APCTP Focus Program in Nuclear Physics 2021 Part II: Science Opportunities with EIC**

**Monday, 19 July 2021 - Saturday, 24 July 2021**

**Hilton Gyeongju  
Programme**

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# Monday 19 July 2021

## **Focus Program: Session A (13:55-16:15)**

**-Conveners: Oh, Yongseok (Kyungpook National University)**

time	[id] title	presenter
13:55	[1] Welcome Remarks	JI, Chueng-Ryong (North Carolina State University)
14:00	[2] Delta baryon photoproduction with twisted photons	CARLSON, Carl (William & Mary)
14:40	[3] Gravitational form factors and mechanical properties of hadrons	POLYAKOV, Maxim (Ruhr-University Bochum)
15:20	Break	
15:35	[4] Generalized parton distributions from experiments	MOUTARDE, Hervé (Irfu, CEA)

**PSQ@EIC: <https://indico.bnl.gov/e/PSQ-WS2> (Session 1, 2) (21:00-00:00)**

# Tuesday 20 July 2021

**PSQ@EIC: <https://indico.bnl.gov/e/PSQ-WS2> (Session 3) (09:00-10:45)**

**Focus Program: Session B (14:00-16:15)**

**-Conveners: Kim, Hyun-Chul (Inha University)**

time	[id] title	presenter
14:00	[5] Simplicity and complexity in the light-front vacuum	HILLER, John (University of Idaho)
14:40	[6] Proton mass decomposition	LORCÉ, Cédric
15:20	Break	
15:35	[7] Hadron physics program at J-PARC	SAWADA, Shinya (KEK)

**PSQ@EIC: <https://indico.bnl.gov/e/PSQ-WS2> (Session 4, 5) (21:00-00:00)**

# Wednesday 21 July 2021

**PSQ@EIC: <https://indico.bnl.gov/e/PSQ-WS2> (Session 6) (09:00-11:00)**

**Focus Program: Session C (14:00-15:55)**

**-Conveners: Joo, Kyungseon (University of Connecticut)**

time	[id] title	presenter
14:00	[8] Emergence of hadron mass from the experimental results on hadron structure	MOKEEV, Victor (JLAB)
14:40	Break	
14:55	[15] Space-like and Time-like Form Factors in Nucleon Resonance Production I	RAMSTEIN, Beatrice (IPN, Orsay)
15:25	[16] Space-like and Time-like Form Factors in Nucleon Resonance Production II	COLE, Philip (Lamar University)

**PSQ@EIC: <https://indico.bnl.gov/e/PSQ-WS2> (Session 7, 8) (21:00-00:00)**

# Thursday 22 July 2021

**PSQ@EIC: <https://indico.bnl.gov/e/PSQ-WS2> (Session 9) (09:00-11:10)**

**Focus Program: Session D (14:00-16:15)**

**-Conveners: Nam, Seung-II (Pukyong National University)**

time	[id] title	presenter
14:00	[9] Three-dimensional structure of the nucleon and the opportunities of the EIC	PROKUDIN, Alexei (Penn State Univ. Berks and Jefferson Lab)
14:40	[10] Interpolating instant form dynamics and light-front dynamics	JI, Chueng-Ryong (North Carolina State University)
15:20	Break	
15:35	[11] The saga of proton sea asymmetry	CHANG, Wen-Chen (Institute of Physics, Academia Sinica)

**PSQ@EIC: <https://indico.bnl.gov/e/PSQ-WS2> (Session 10, 11) (21:00-00:00)**

# Friday 23 July 2021

## Focus Program: Session E (14:00-16:15)

-Conveners: Choi, Ho-Meoyng (Kyungpook National University)

time	[id] title	presenter
14:00	[12] K-long beam experiment at Jefferson Lab	STRAKOVSKY, Igor (The George Washington University)
14:40	[13] Hyperon-proton scattering experiment at J-PARC for better understanding of hyperon-nucleon interaction	MIWA, Koji (Tohoku University)
15:20	Break	
15:35	[14] Production of XYZ states	PILLONI, Alessandro (Università di Messina)

**PSQ@EIC: <https://indico.bnl.gov/e/PSQ-WS2> (Session 12, 13) (21:00-00:00)**

# Saturday 24 July 2021

**Focus Program: Session F: Discussion (09:00-10:30)**

**-Conveners: Domestic Participants**