

RBRC workshop “Small-x physics in the EIC era”

RBRC

RIKEN BNL Research Center

Organizers: Astrid Morreale, Farid Salazar, Bjoern Schenke, Raju Venugopalan, Yoshitaka Hatta



*Nuclei as heavy as bulls
Through collision
Generate new states of matter*

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牛



RIKEN –National research institute in Japan founded in 1917

RIKEN BNL Research Center (RBRC)

Inaugurated in 1997, dedicated to the RHIC sciences

Nucleon spin & Heavy-ion collisions (QGP)

Director: [Hideto Enyo](#)

Deputy Director: [Dave Morrison](#)

Experimental group leader : [Yasuyuki Akiba](#)

Theory group leader: [Yoshitaka Hatta](#)

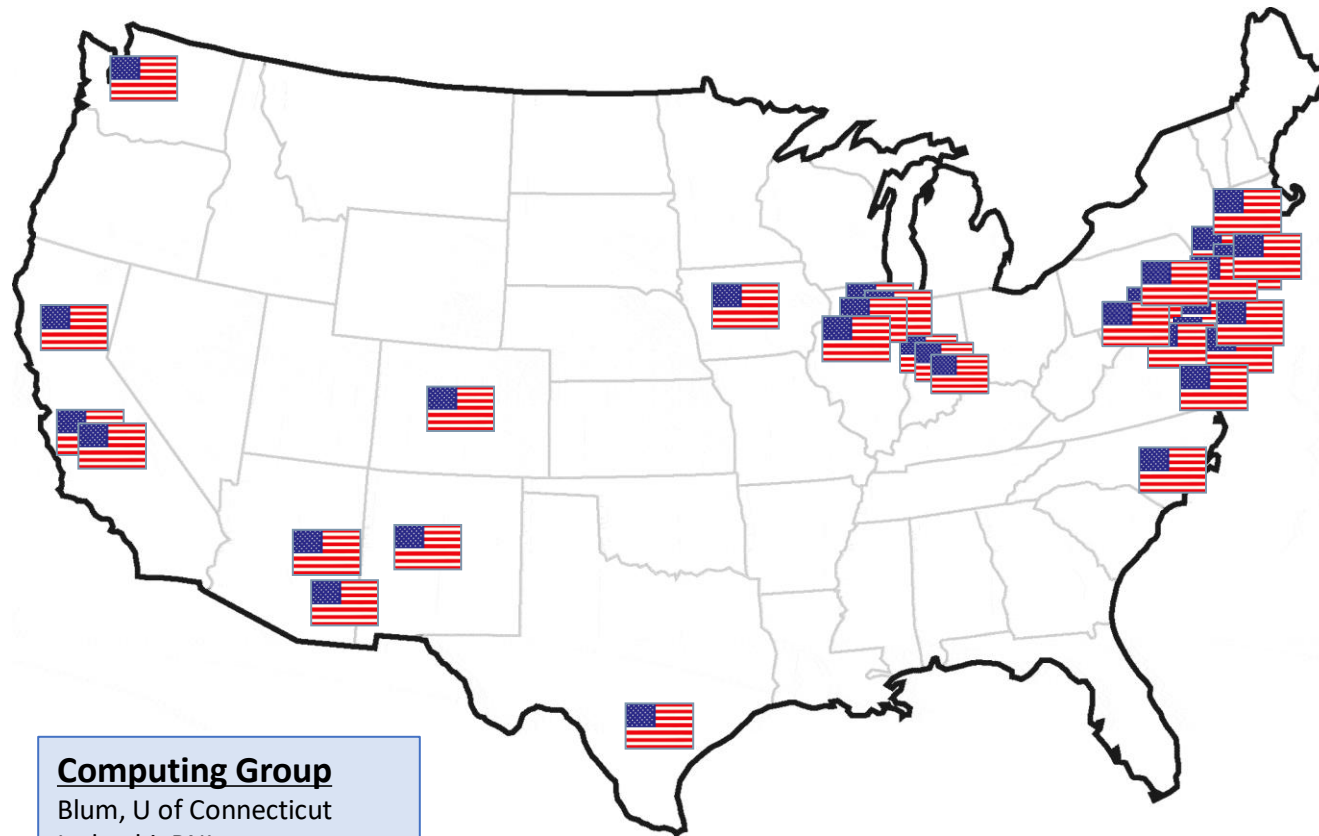
Computational group leader: [Taku Izubuchi](#)

+ joint fellows, postdocs



Weekly seminars, 100+ workshops,
graduates obtained 70+ tenured positions worldwide

RBRC Graduates Have Tenured Positions In The U.S.



Computing Group

Blum, U of Connecticut
Izubuchi, BNL
Meinel, U of Arizona
Neil, U of Colorado
Orginos, William & Mary
Petreczky, BNL
Tiburzi, CCNY

Theory Group

Bass, Duke U
Dumitru, Baruch
Hatta, BNL
Fries, Texas A&M
Kang, UCLA
Kharzeev, BNL/SBU
Kusenko, UCLA
Liao, Indiana U
Lunardini, Arizona State
Mocsy, Pratt
Molnar, Purdue
Pitonyak, Lebanon Valley C
Son, U of Chicago
Schaefer, NCSU
Stasto, Penn State
Stephanov, U of Illinois
Teaney, Stony Brook
Tuchin, Iowa S U
Van Kolck, U of AZ & WA
Venugopalan, BNL
Yee, U of Illinois
Yuan, Berkeley

Experimental Group

Bathe, Baruch
Bazilevsky, BNL
Deshpande, Stony Brook U
Fields, U New Mexico
Grosse-Perdekamp, U Illinois
Kawall, Amherst
Xie, Purdue

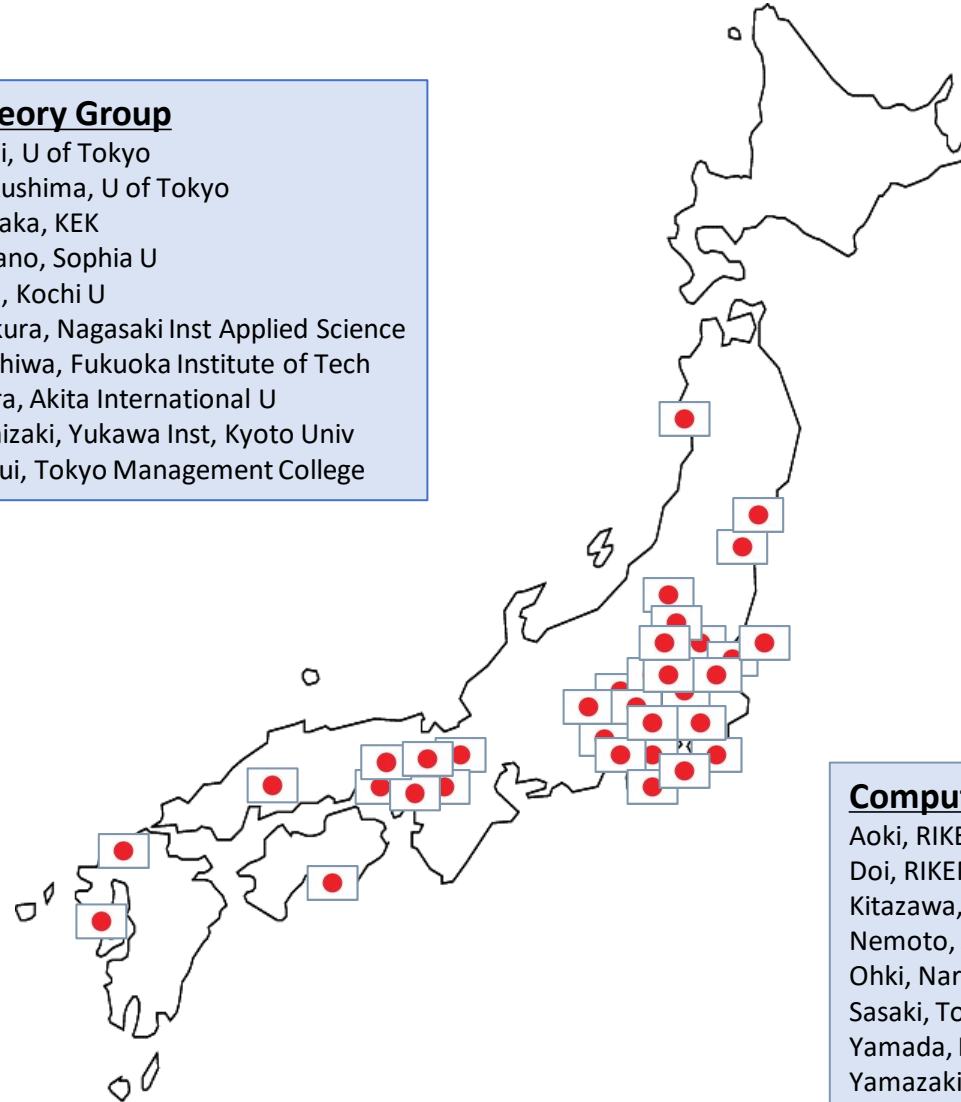
RBRC Graduates Have Tenured Positions In Japan

Experimental Group

Goto, RIKEN
Hachiya, Nara Women's U
Hayashi, JAEA
Jinnouchi, Titech
Kaneta, Tohoku U
Kawabata, Kyoto U
Kurita, Rikkyo U
Mitsuka, KEK
Murata, Rikkyo U
Nakano, Titech
Okada, Spring-8 (JASRI)
Onishi, Tohoku U
Saito, KEK
Seidl, RIKEN
Tanida (JAEA)
Togawa, KEK
Tojo, Kyushu U
Yamaguchi, Hiroshima U
Yokkaichi, RIKEN

Theory Group

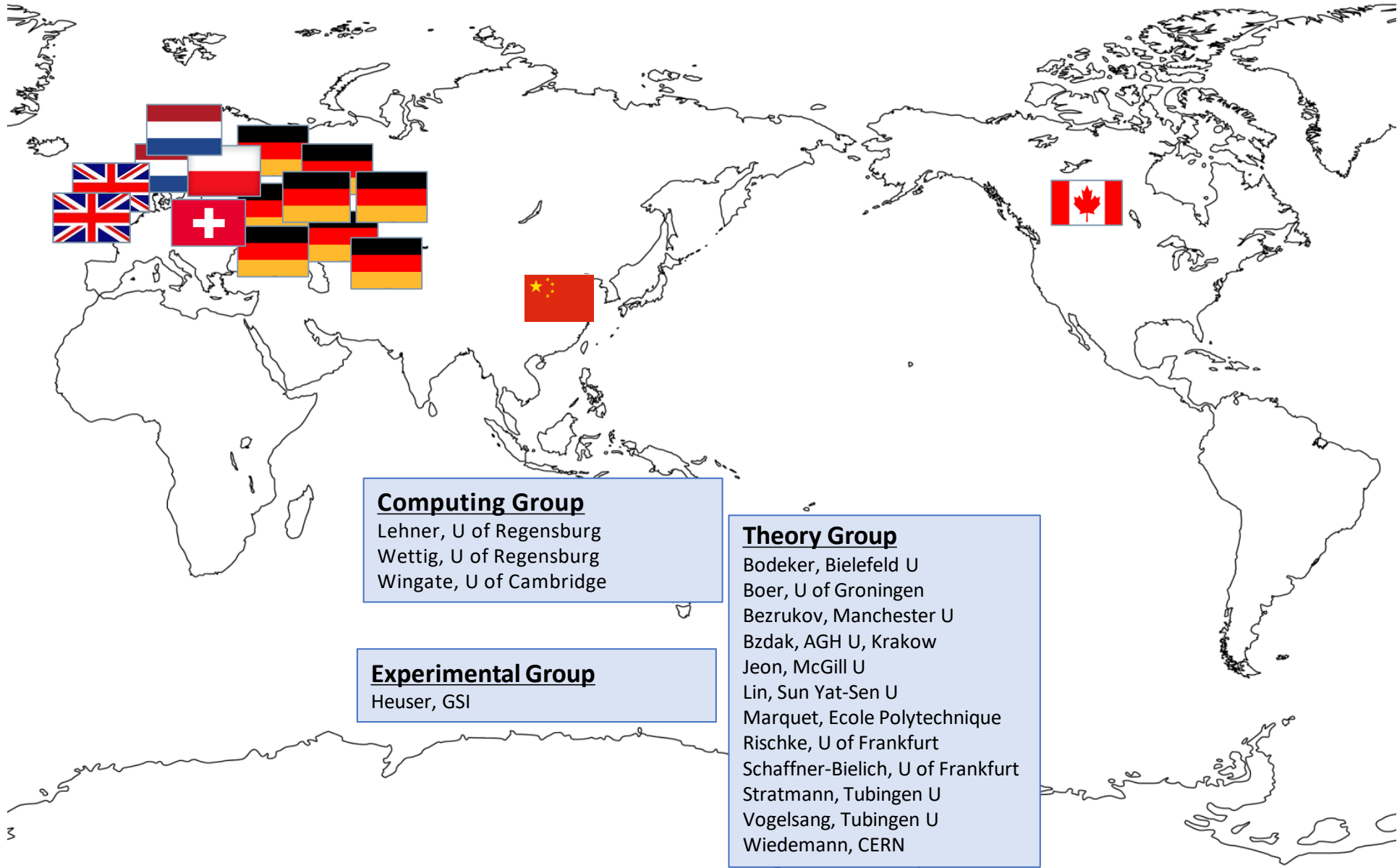
Fujii, U of Tokyo
Fukushima, U of Tokyo
Hidaka, KEK
Hirano, Sophia U
Iida, Kochi U
Itakura, Nagasaki Inst Applied Science
Kashiwa, Fukuoka Institute of Tech
Nara, Akita International U
Tanizaki, Yukawa Inst, Kyoto Univ
Yasui, Tokyo Management College



Computing Group

Aoki, RIKEN
Doi, RIKEN
Kitazawa, Osaka U
Nemoto, St. Marianna U
Ohki, Nara Women's U
Sasaki, Tohoku U
Yamada, KEK
Yamazaki, Tsukuba U

RBRC Graduates Have Tenured Positions Worldwide



RBRC workshop on small-x

Gluon saturation:

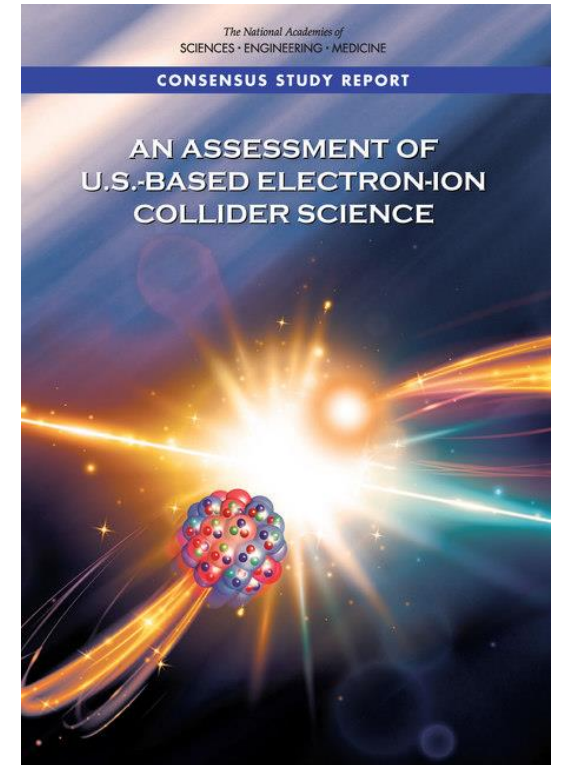
One of the three major goals of the future Electron-Ion Collider (EIC) at BNL

Finding 1: An EIC can uniquely address three profound questions about nucleons—protons—and how they are assembled to form the nuclei of atoms:

- How does the mass of the nucleon arise?
- How does the spin of the nucleon arise?
- What are the emergent properties of dense systems of gluons?

Goal of the workshop:

Kickstart discussion on the possibility to apply for a **DOE topical collaboration**. What are the outstanding open problems at small-x requiring a community-wide effort?



Important information

- PLEASE DO NOT SHARE the zoom link with non-registered persons.
- The schedule is tight. Please keep time (30min=25+5, 20min=15+5, 12min=10+2)
- Session chairs, please prepare notes from the talks to lead the discussion session
- After the workshop, we will lock the indico page. After that the updated materials cannot be changed.