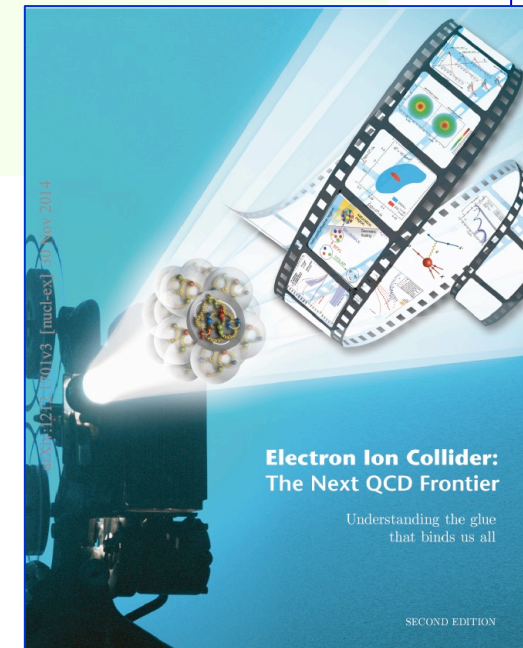


EIC in a nutshell

EIC – Electron-Ion Collider – POLARIZED e, POLARIZED p & heavy ions !!!

- Scientific Highlights
 - Nucleon Spin and its 3D Structure and Tomography
 - g saturation in nuclei, q and g in nuclei
 - Beyond SM with electroweak physics
- recommendation by the U.S. NP community in the 2015 Long Range Plan:
EIC is the highest priority for new facility construction
NAS (National Academy of Science) review on going
Starting physics in ~ 2027
- 2 options for the collider:
 - eRHIC @ BNL
 - 1.3-21 GeV (e), 25-250 GeV (p), $L : 10^{33} - 10^{34} / \text{cm}^2/\text{s}$
 - MEIC @ Jlab
 - 3-12 GeV (e), 25-100 GeV (p), $10^{34} / \text{cm}^2/\text{s}$ (later, 10^{35})



EICUG meeting in Trieste, July 2017

- **EICUG – EIC User Group** (<http://www.eicug.org/web/>)
 - The community supporting EIC
 - 685 inscribed so far (experimentalists and theorists) – 54 from INFN
- **Previous meetings:** Jun 2014, **Stony Brook** Jan 2016, **Berkley** Jul 2016, **Argonne**
 - **Agenda:** physics detectors accelerators

INFN initiative towards the formation of an international community

**The JULY 2017 meeting of the EICUG will be host at
INFN – Trieste 18-22 July 2017**

Web site: eicug2017.ts.infn.it/

- **Goals:**
 - Offer an opportunity to the whole INFN to learn more about – open to everyone !
 - Allow the interested INFN physicists to start forming a coherent community
 - More in general: offer an opportunity to European scientists to get in contact with EIC