

Tomography of light nuclei at an EIC

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Purpose of the Workshop

Main goals:

- Spatial picture of nuclei at a quark-gluon level
 - Nuclear GPDs, TMDs, PDFs, ...
- Explicit QCD effects in nuclear observables
 - EMC effect
 - EMC-like effect for GPDs?
- QCD perspective on inter-nucleon forces
- How relativistic effects manifest in nuclei
- **How the EIC can achieve these goals?**



Topics covered

- Nuclear partonic structure
 - Shunzo Kumano, Sara Fucini, Tony Thomas, Giovanni Salme, Will Detmold
- Partonic structure of hadrons
 - Misak Sargsian, James Vary
- Nuclear structure
 - Herman Krebs, Peter Maris
- Medium modification (EMC effect)
 - Jerry Miller
- What the EIC can do
 - Zein-Eddine Meziani, Charles Hyde, Christian Weiss, Pawel Nadel-Turonski
- What JLab can do
 - Raphael Dupre



Workshop structure

- **20 minute talks**
 - 8 am EST - 11 am EST
 - 20 minute break at 9:20 am.
- **One-hour discussion**
 - 11 am EST - 12 pm EST
 - All participants welcome to join!



Thank you for participating!