

# Cold Nuclear Matter Effects: from the LHC to the EIC

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## Purpose & Information

*Center for Frontiers in Nuclear Science*

January 13–16, 2025



# Content & Goals

- ▶ **Experimental data:** Key insights from RHIC, LHC, and fixed-target experiments.
- ▶ **Saturation physics and nPDFs:** Advances in gluon saturation and nuclear PDFs.
- ▶ **Energy loss:** Mechanisms of parton energy loss and related observables.
- ▶ **Other nuclear effects:** Final-state effects.

## Goals:

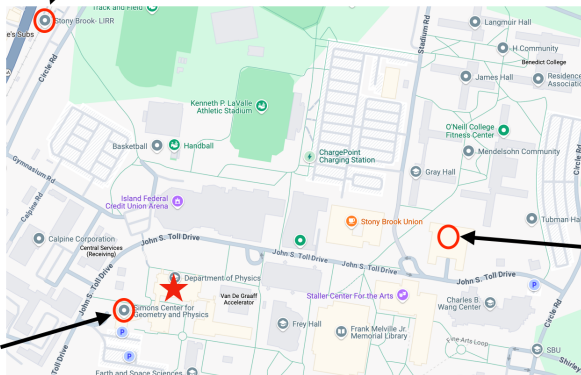
- ▶ Assess current knowledge and open questions.
- ▶ Define priorities and strategies for EIC studies.
- ▶ Strengthen collaboration between theory and experiment.

# Information I

## Where to Eat?

- ▶ **East Side Dining:** [link](#)
- ▶ **Simons Center Café:** [link](#)

LIRR train station



Simons Center  
Café

East Side  
Dinning

# Information II

## Live from Aussois, France

- ▶ **Workshop:** Joint Session on Double Parton Scattering and the 3D Structure of Hadrons
- ▶ **Location:** Aussois, France
- ▶ **Date:** Tuesday, January 14
- ▶ **More Information:** Session details on Indico

## Social Event

- ▶ **Event:** Dinner at The Fifth Season
- ▶ **Date and Time:** Tuesday, January 14, 6:00 PM
- ▶ **Address:** 34 E Broadway, Port Jefferson, NY 11777
- ▶ **Website:** [thefifth-season.com](http://thefifth-season.com)

# Contact

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Charles-Joseph Naïm

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## **The Organizing Committee:**

- ▶ François Arleo (Subatech, France)
- ▶ Charles-Joseph Naïm (CFNS, USA)
- ▶ Jen-Chieh Peng (Illinois Urbana-Champaign, USA)
- ▶ Ramona Vogt (LLNL and UC Davis, USA)