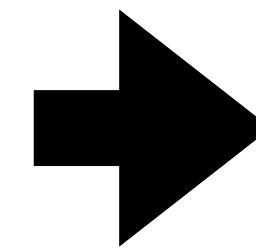


# ACADEMIC JOURNEY

Kyle Lee

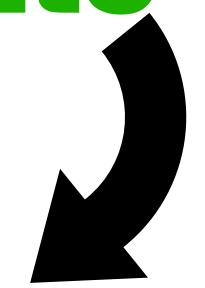


undergraduate

graduate



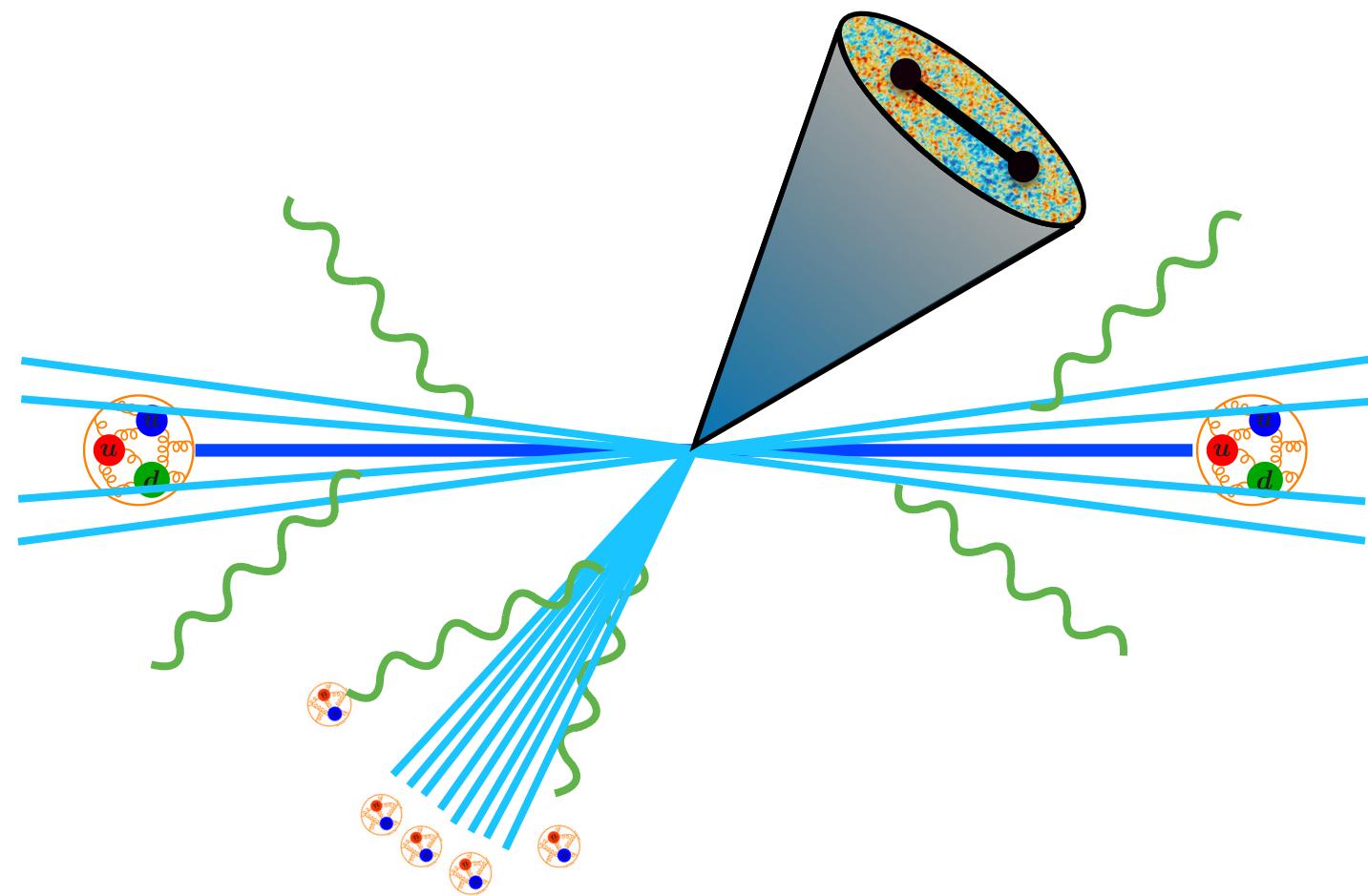
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# RESEARCH INTERESTS

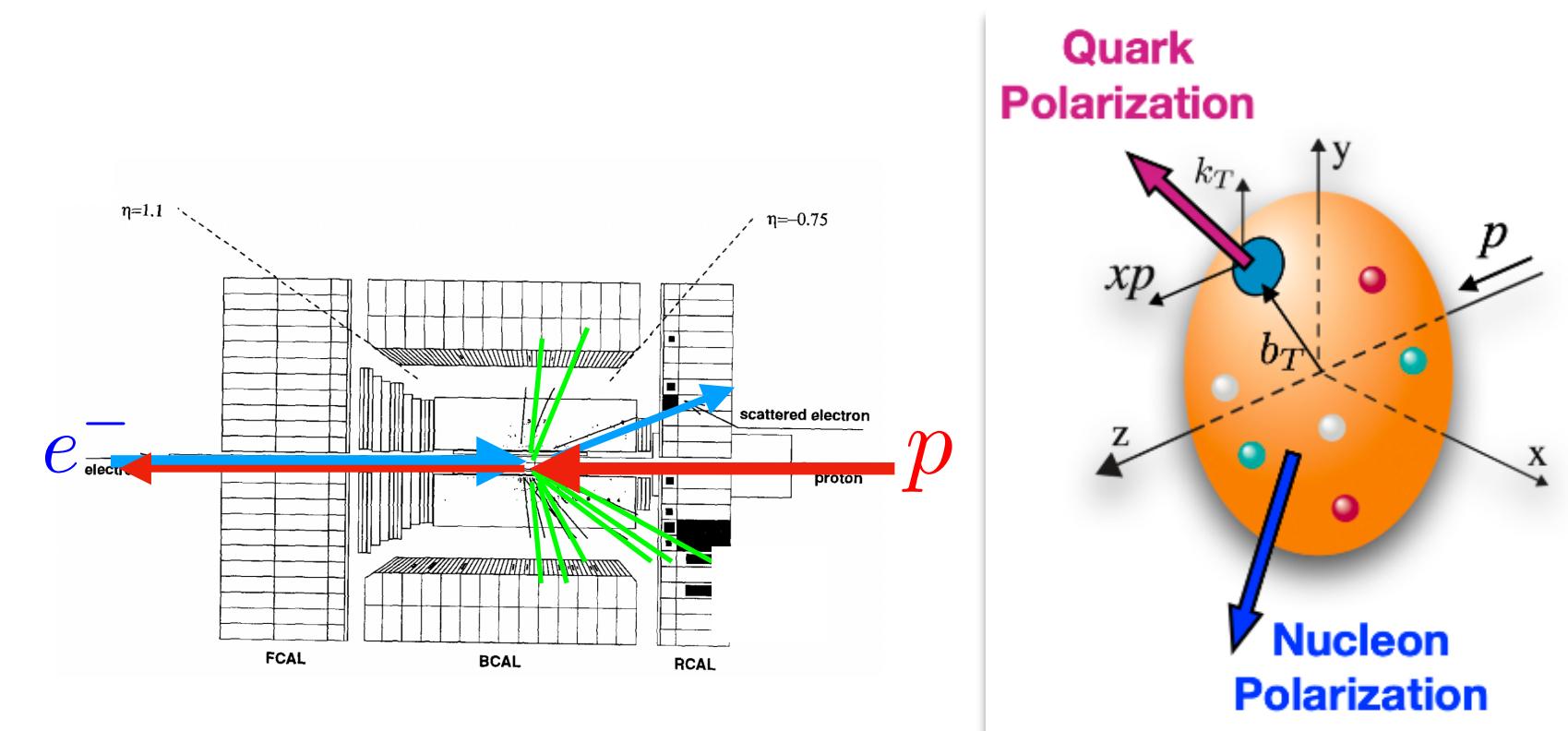
Kyle Lee

## Jet and jet substructure



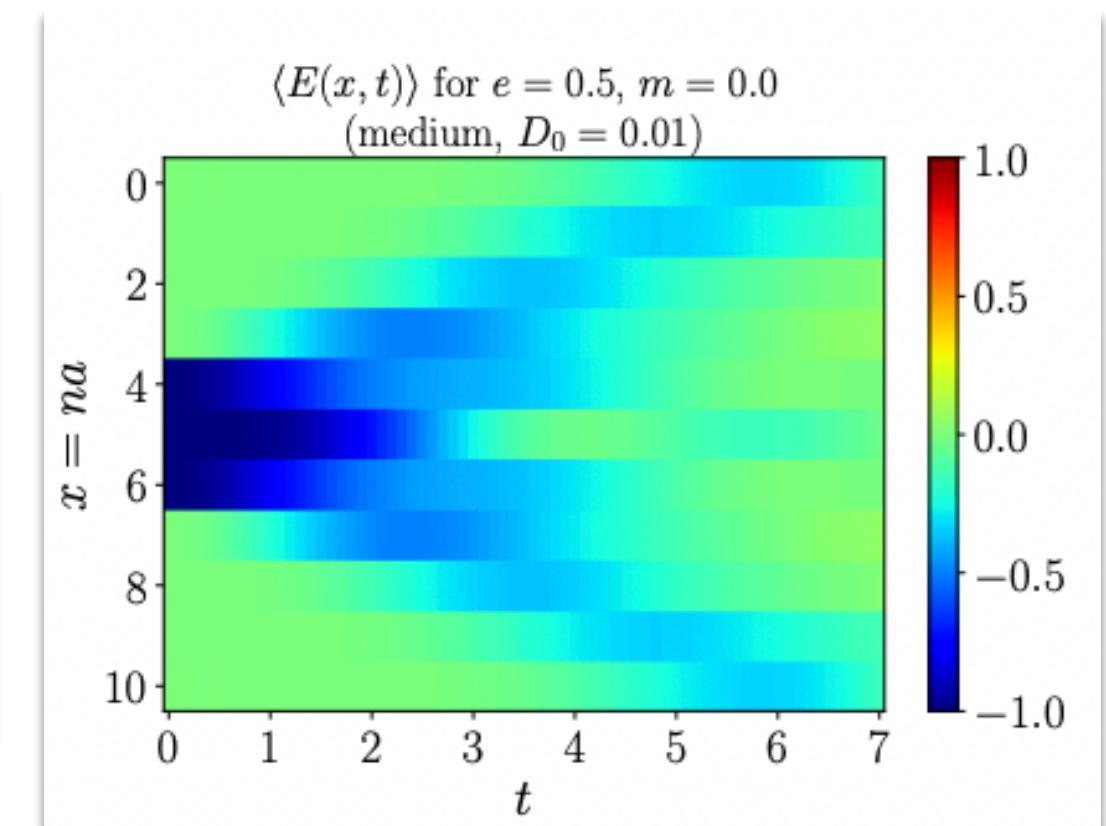
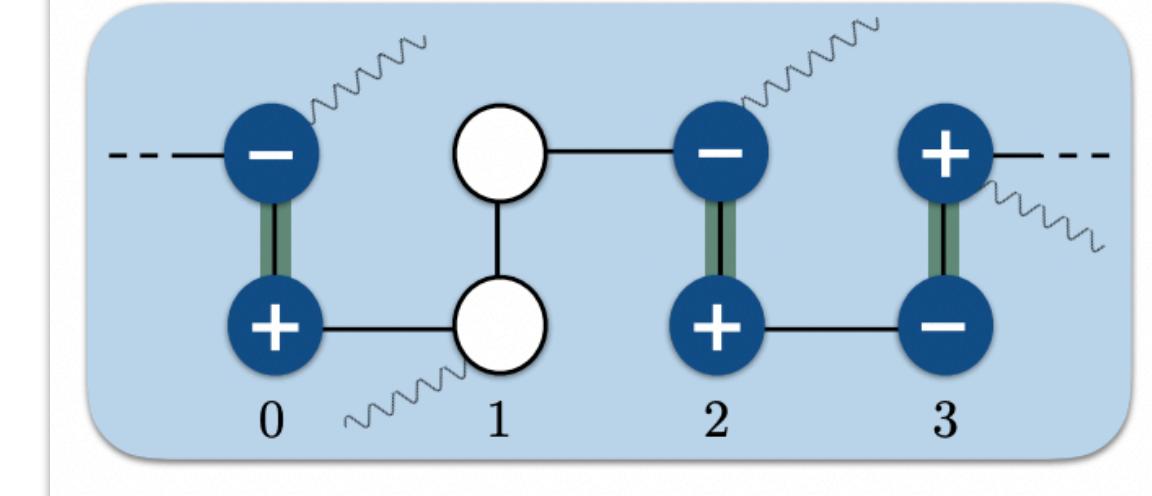
- KL, Pathak, Stewart, Sun '24**  
**Kang, KL, Shao, Zhao '23**  
**KL, Moult '23**  
**KL, Moult, Ringer, Waalewijn '23**  
**KL, Meçaj, Moult '22**  
**Cal, KL, Ringer, Waalewijn '21**  
**Kang, KL, Zhao '20**  
Aschenauer, **KL, Page, Ringer '19**  
...  
...  
...

## Hadron tomography

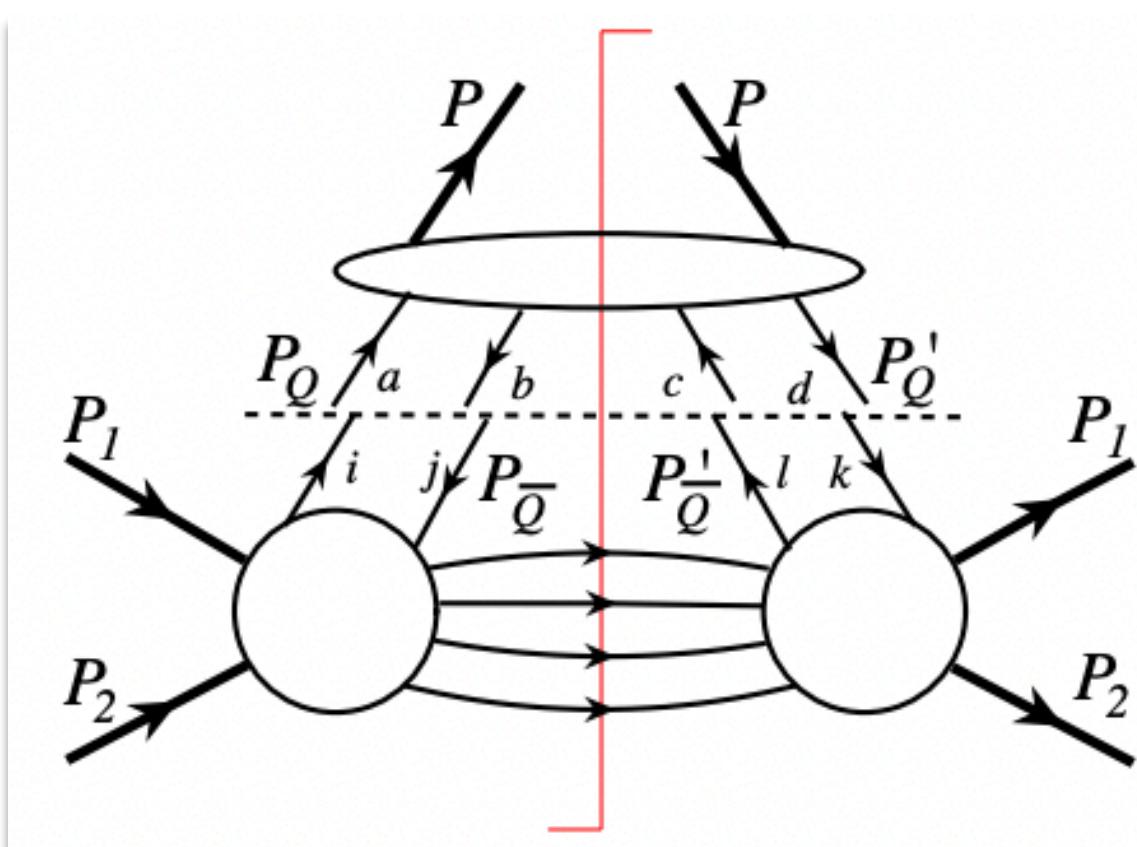


- KL, Schindler, Stewart '24**  
**Kang, KL, Shao, Zhao '23**  
**Kang, KL, Shao, Zhao '21**  
**Kang, KL, Shao, Terry '20**  
Buffing, Kang, **KL, Liu '18**  
...  
...

## Quantum information and simulations



## Quarkonium physics

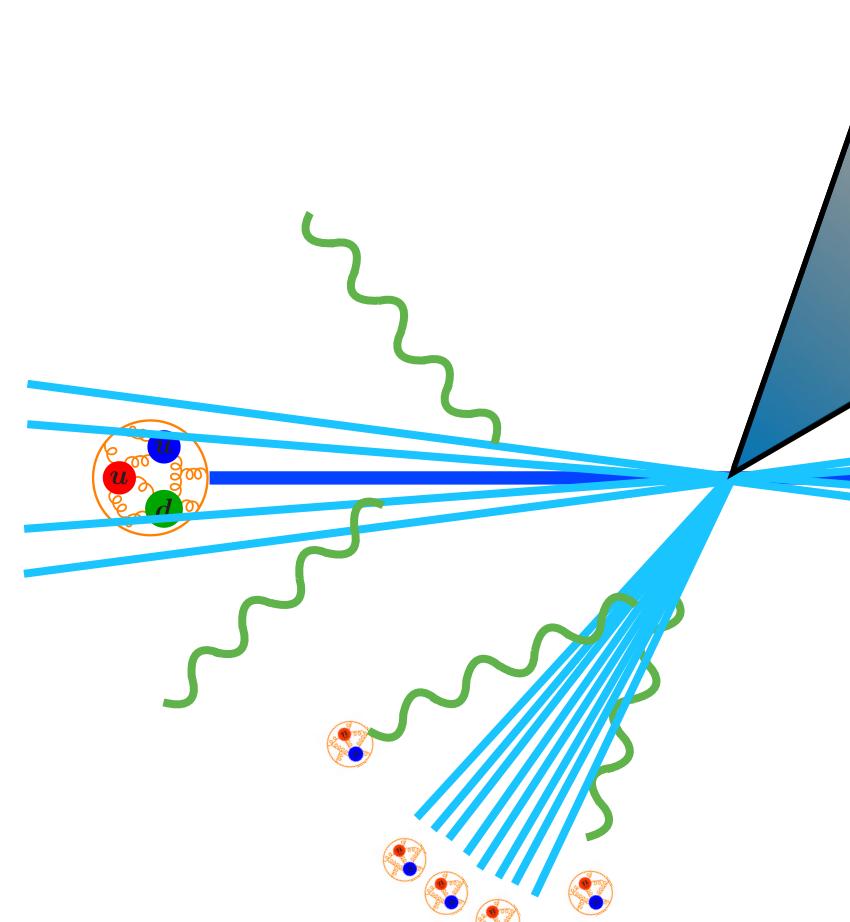


- KL, Qiu, Sterman, Watanabe '24**  
**KL, Qiu, Sterman, Watanabe '22**  
**KL, Sterman '20**  
...  
**and more...**  
Assi, Hoeche, **KL, Thaler '24**  
von Kuk, **KL, Michel, Sun '24**  
**KL, Mulligan, Płoskoń, Ringer, Yuan '22**  
Gao, **KL, Mukherjee, Schubert, Zhao '21**  
...

# RESEARCH INTERESTS

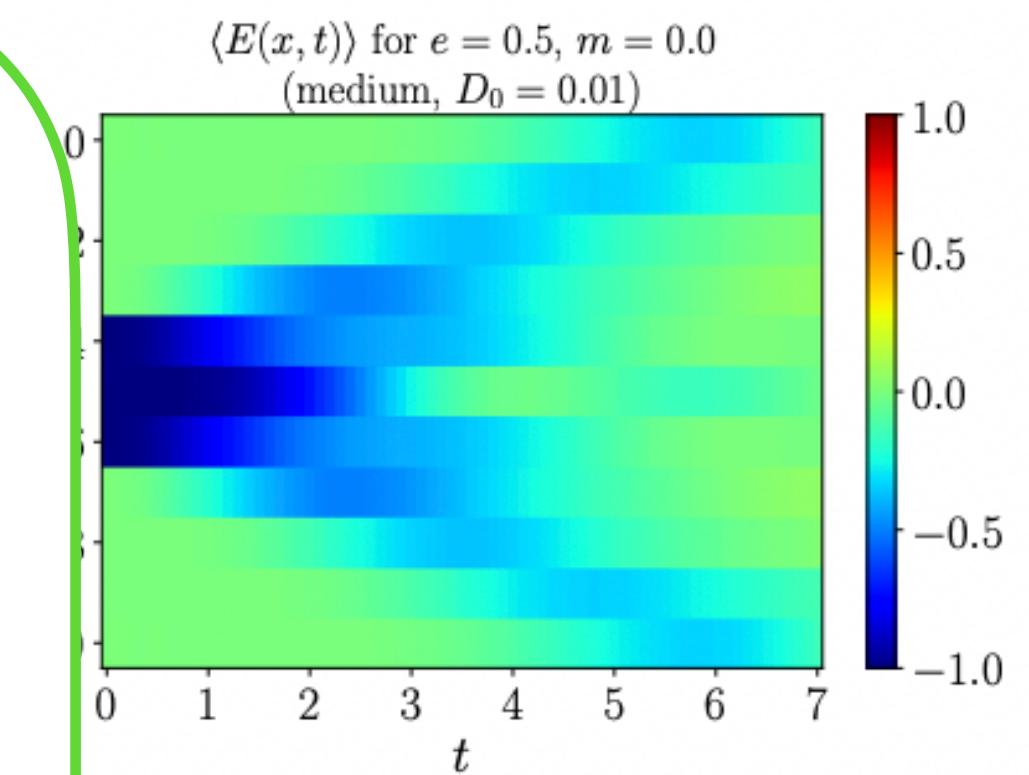
Kyle Lee

## Jet and jet substructure



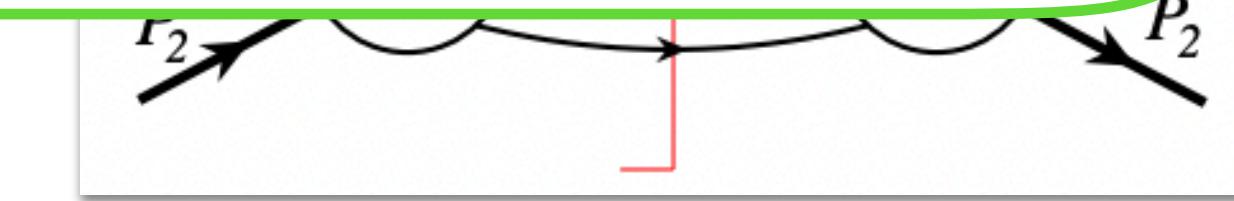
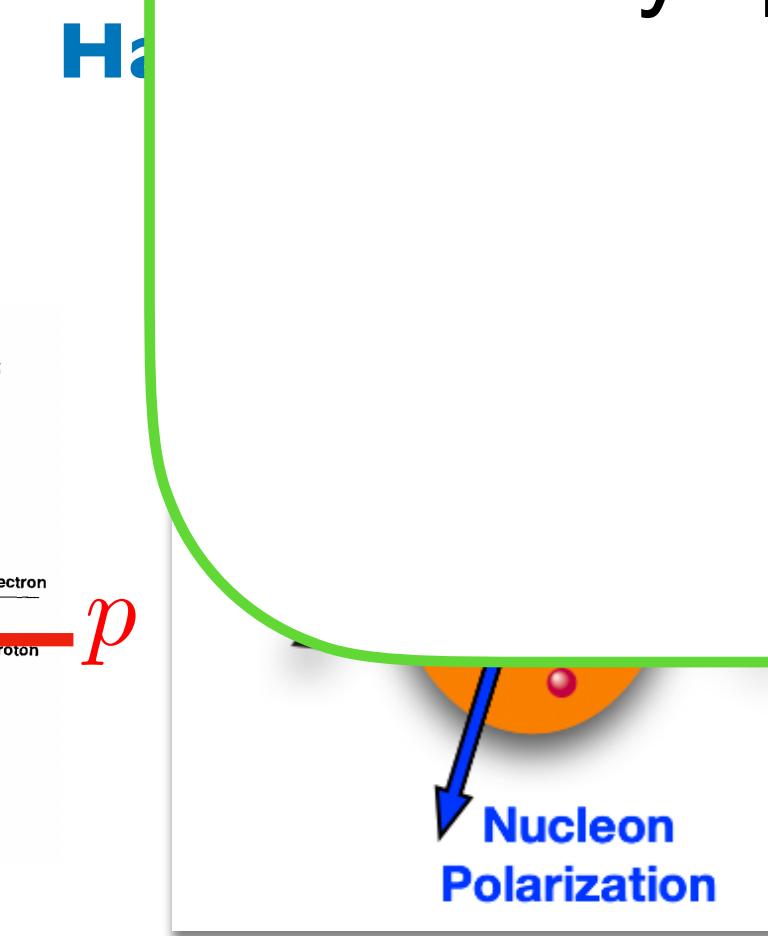
**KL, Pathak, Stewart, Sun '24**  
**Kang, KL, Shao, Zhao '23**

## Quantum information and simulations



## My research and EIC physics

- Hadronic Structure: TMDs and Diffraction!
- Spin correlations between partons and hadrons
- Heavy quark dynamics and cold nuclear matter effects



**KL, Qiu, Sterman, Watanabe '24**  
**KL, Qiu, Sterman, Watanabe '22**  
**KL, Sterman '20**  
...

## and more...

Assi, Hoeche, **KL, Thaler '24**  
von Kuk, **KL, Michel, Sun '24**  
**KL, Mulligan, Płoskoń, Ringer, Yuan '22**  
**Gao, KL, Mukherjee, Schubert, Zhao '21**  
...

# RESEARCH INTERESTS

Kyle Lee

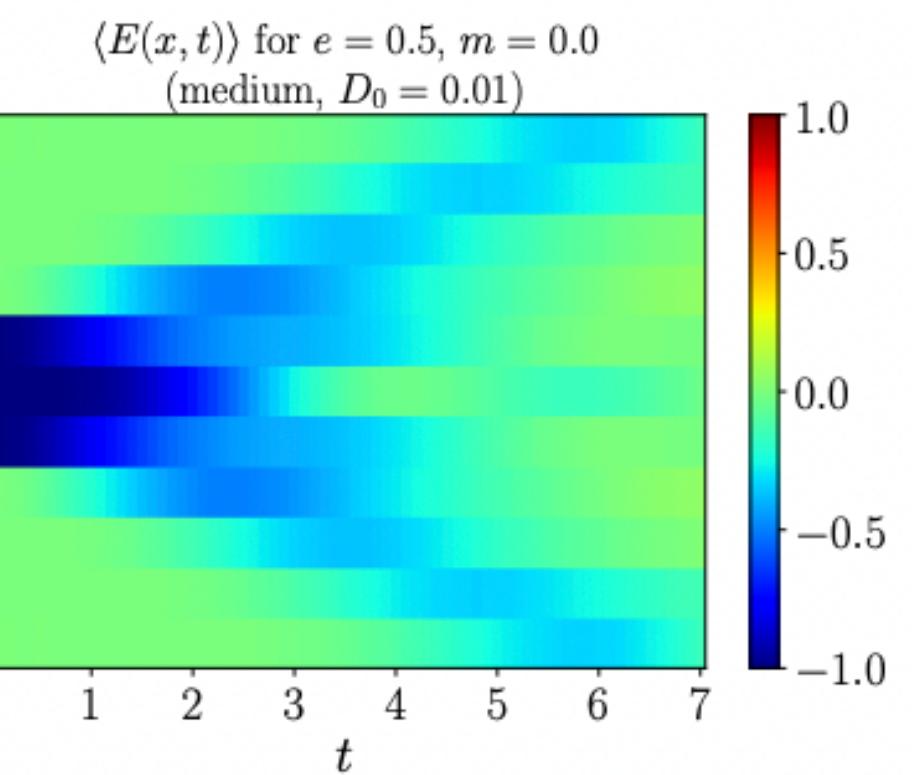
## Jet and jet substructure

**KL, Pathak, Stewart, Sun '24**  
Kang, **KL, Shao, Zhao '23**

## My research and EIC physics

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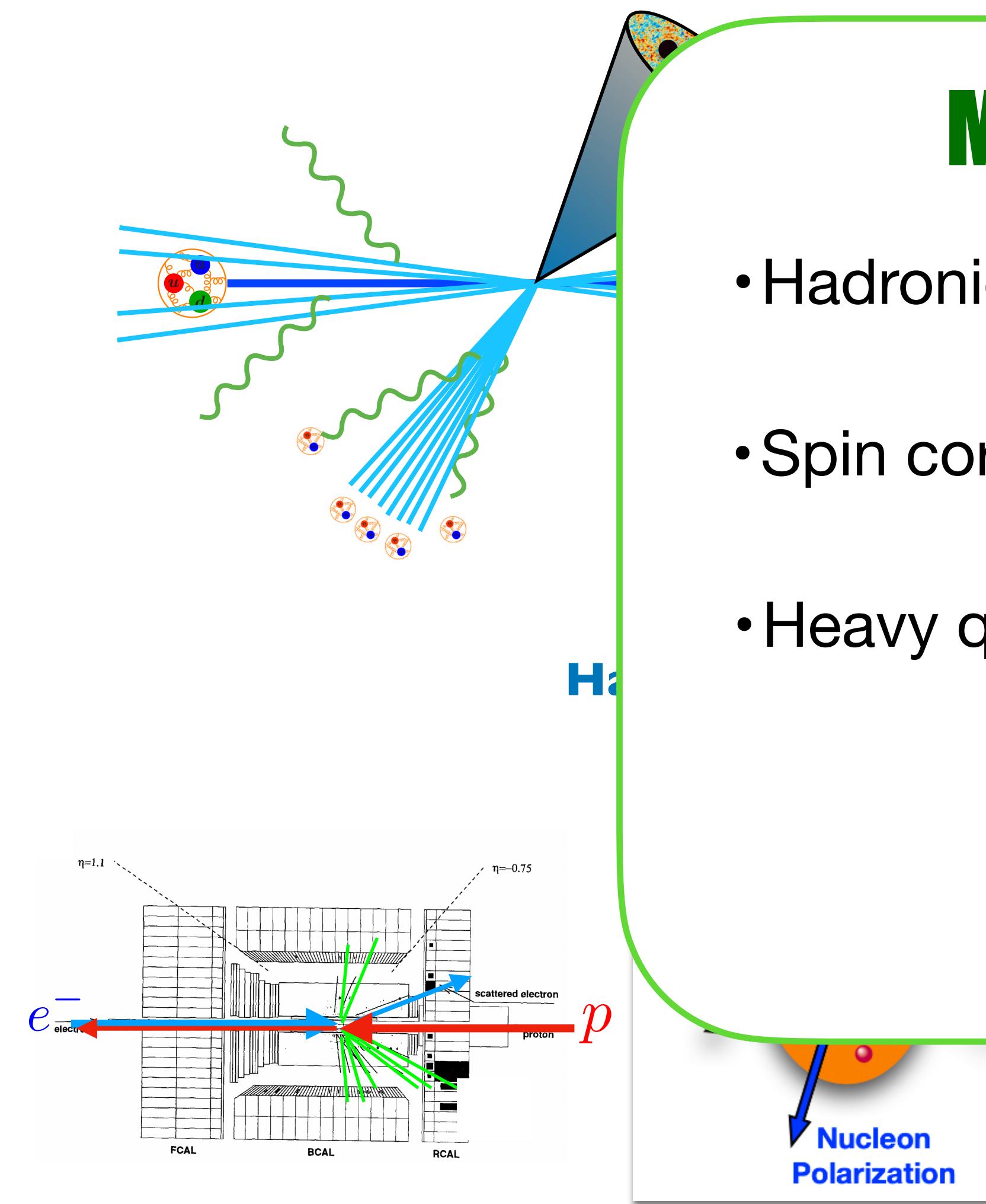
## Quantum information and simulations



**KL, Qiu, Sterman, Watanabe '24**  
**KL, Qiu, Sterman, Watanabe '22**  
**KL, Sterman '20**

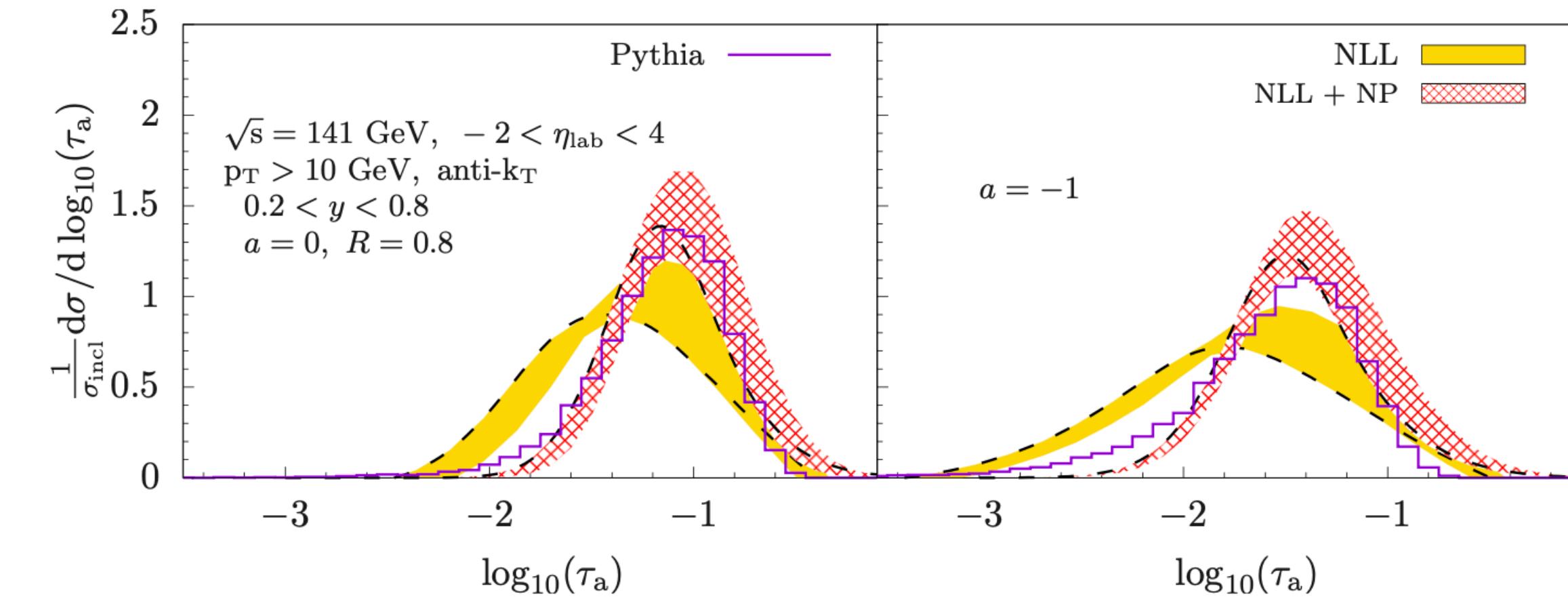
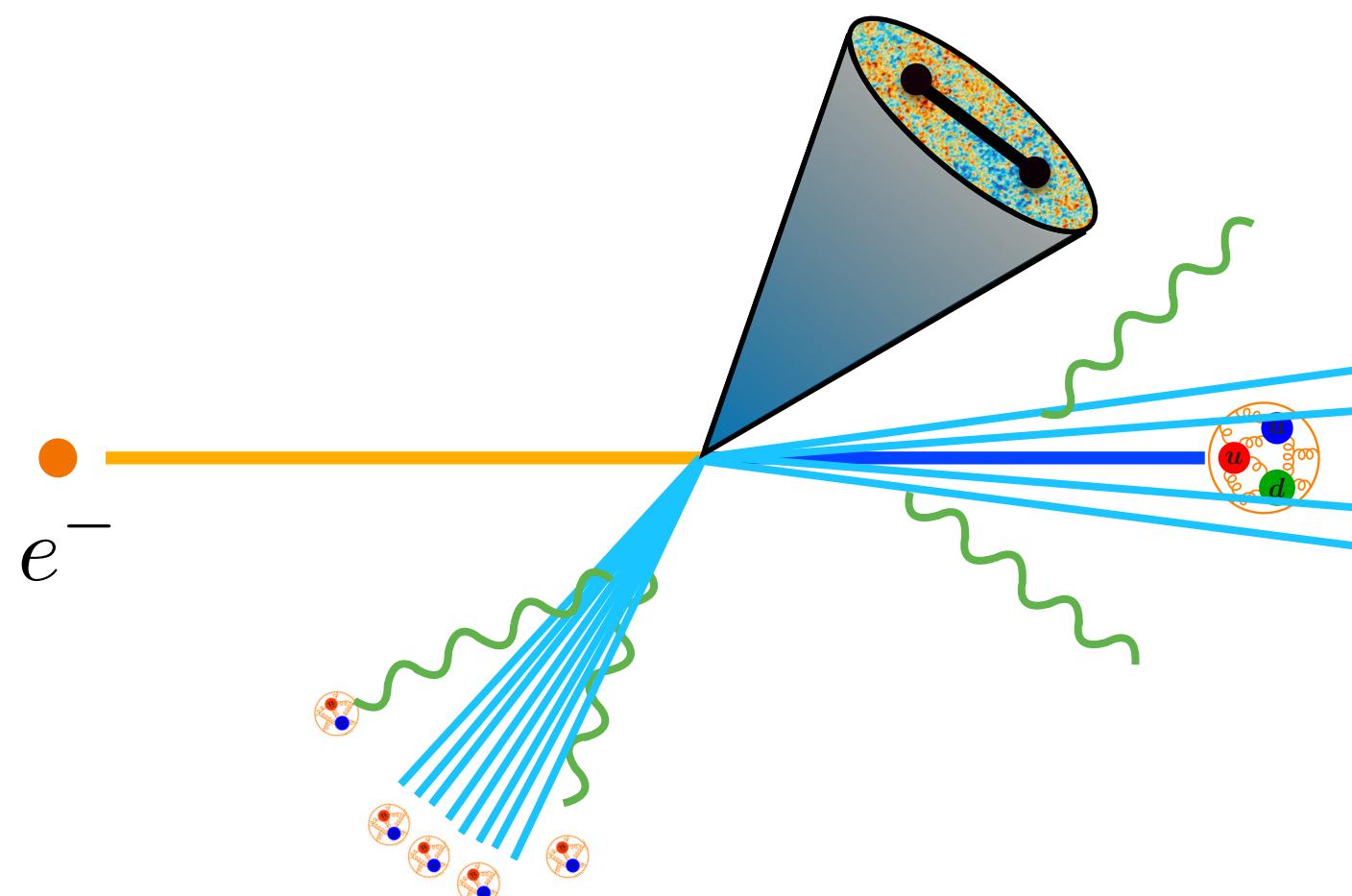
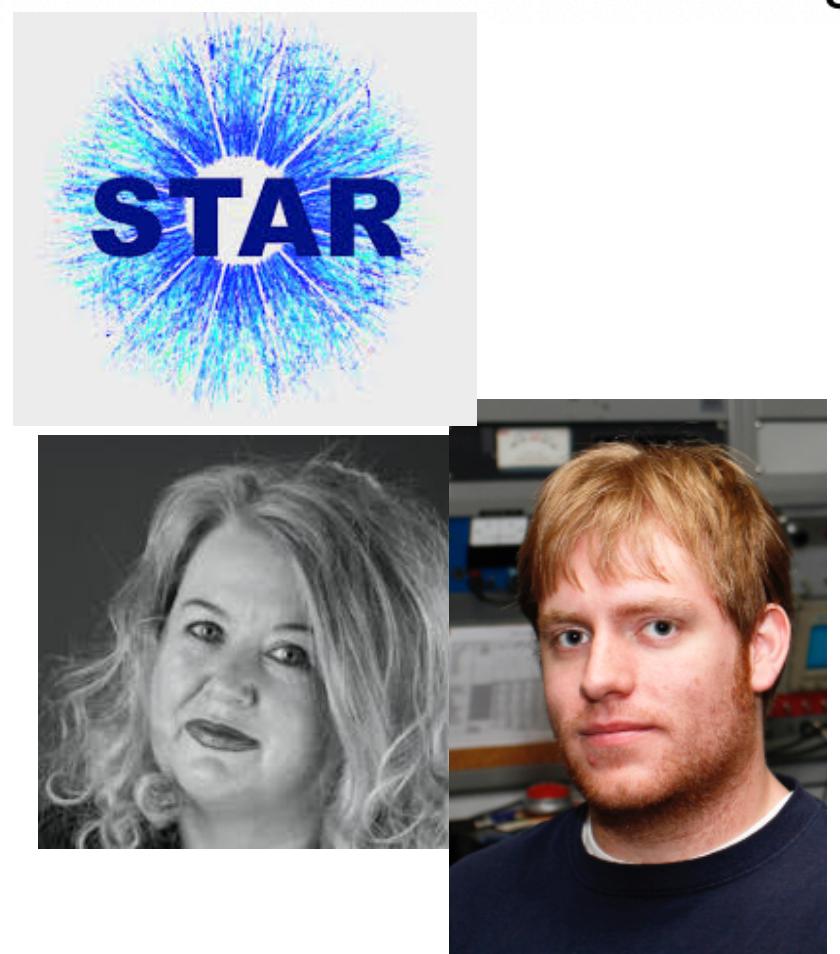
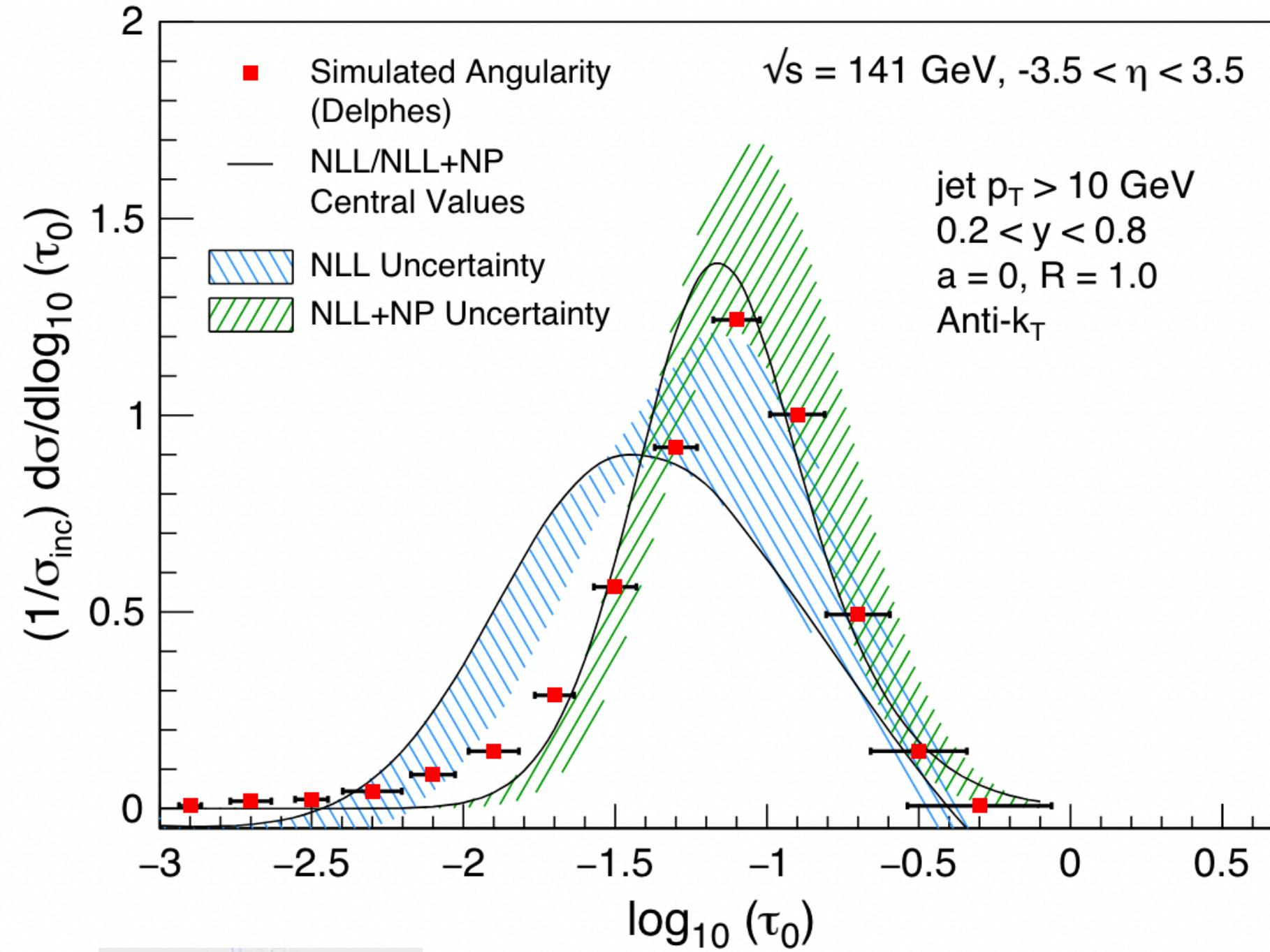
and more...

Assi, Hoeche, **KL, Thaler '24**  
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**KL, Mulligan, Płoskoń, Ringer, Yuan '22**  
Gao, **KL, Mukherjee, Schubert, Zhao '21**



# EXPERIMENTS MEET THEORY

Kyle Lee

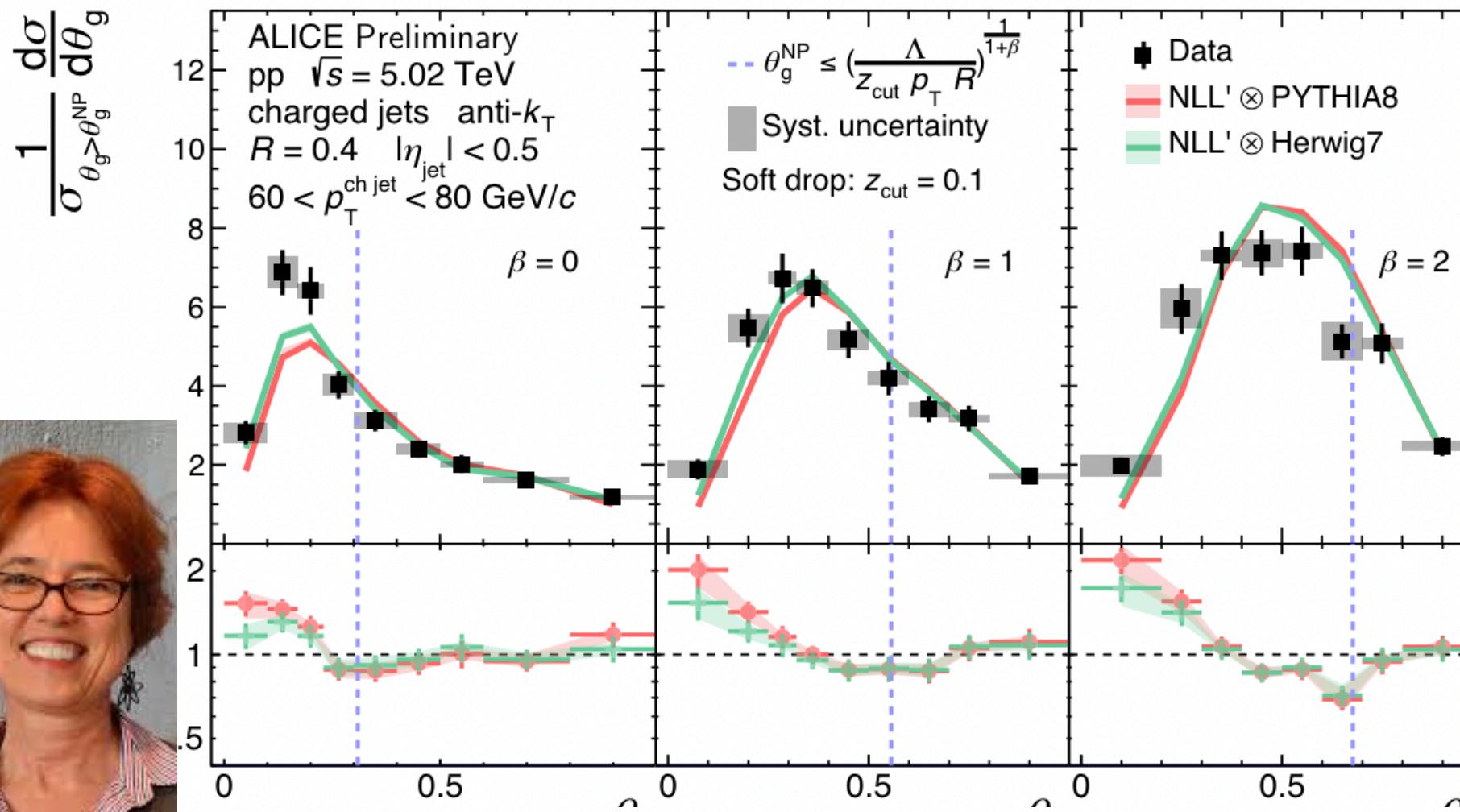


**Figure 7.89:** Predictions for jet angularities at the EIC: Purely perturbative results (yellow band) and with a nonperturbative shape function (red band) compared to simulations from PYTHIA 6 [76].

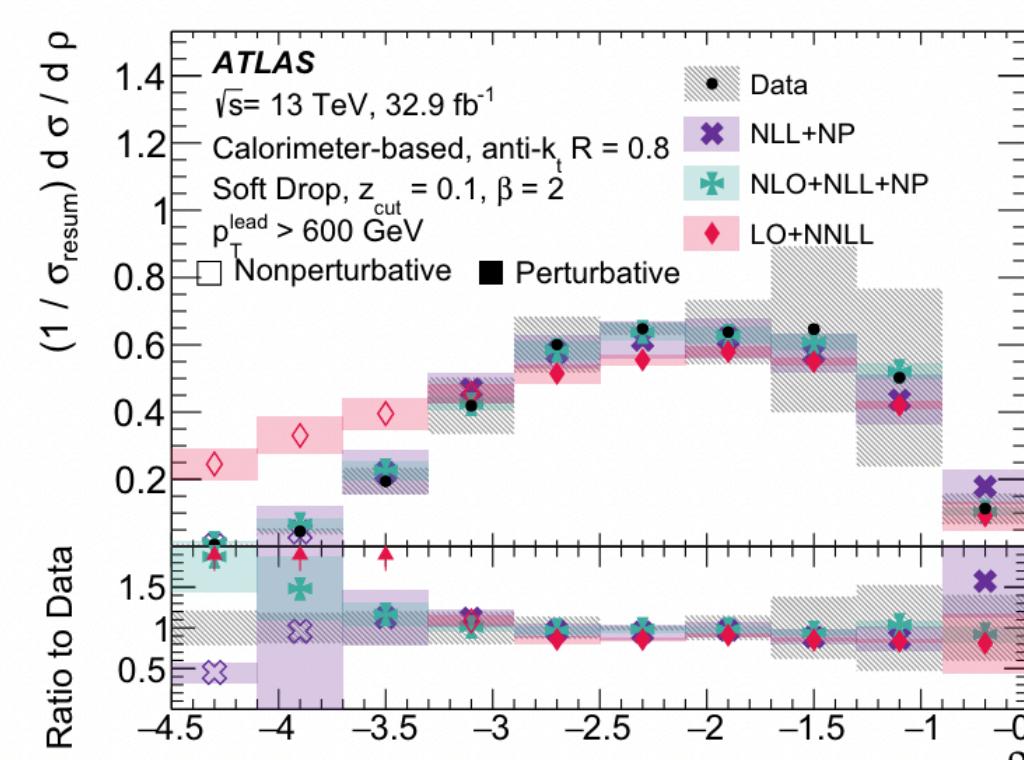
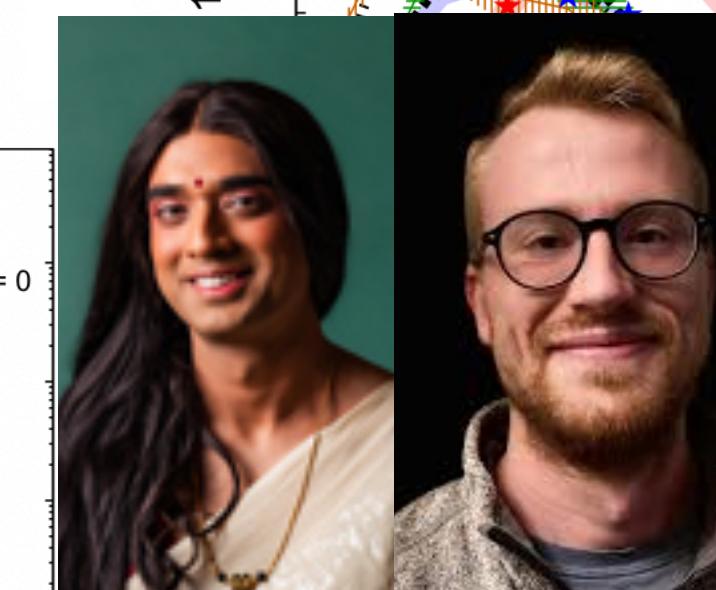
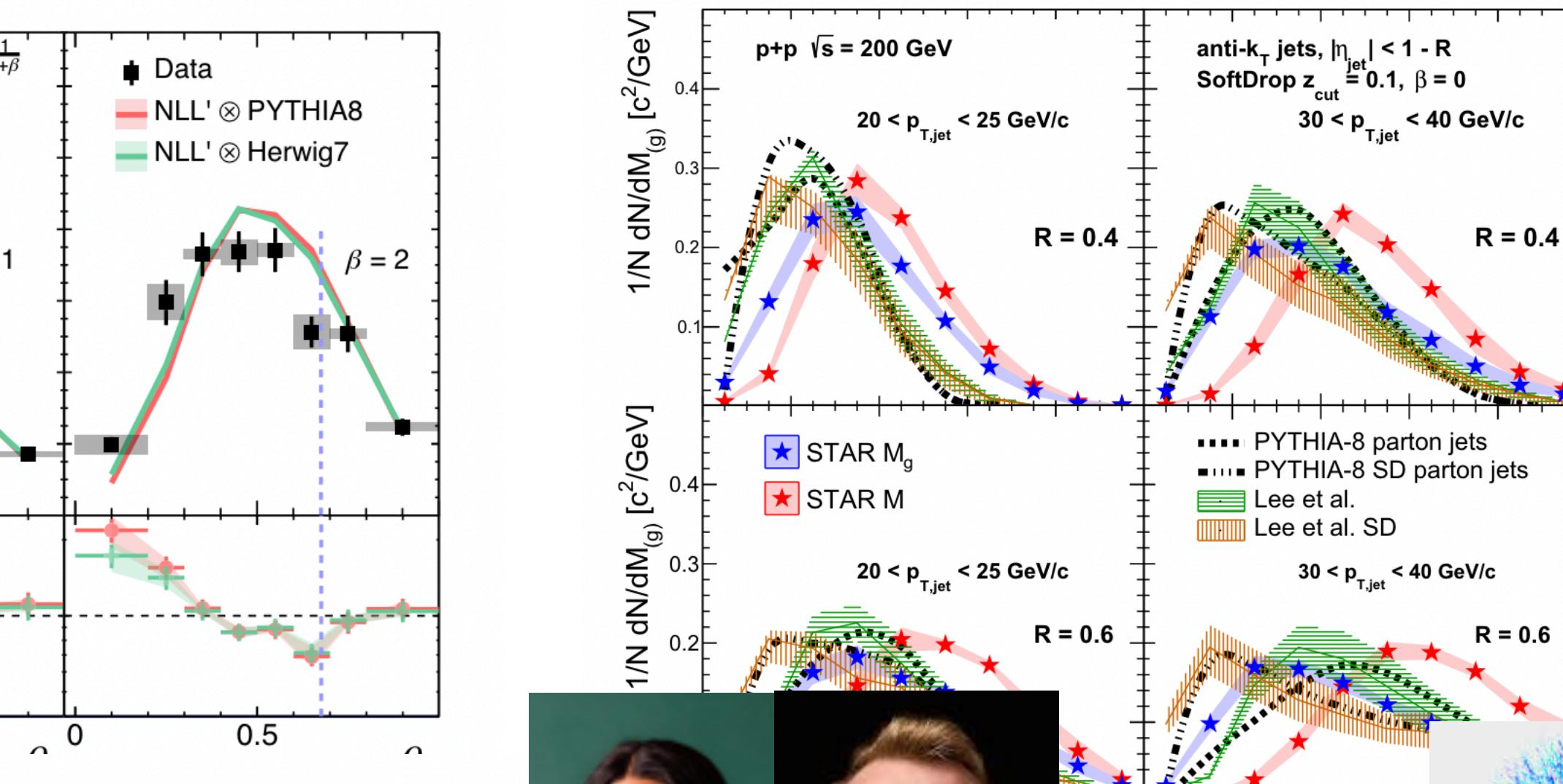


# EXPERIMENTS MEET THEORY

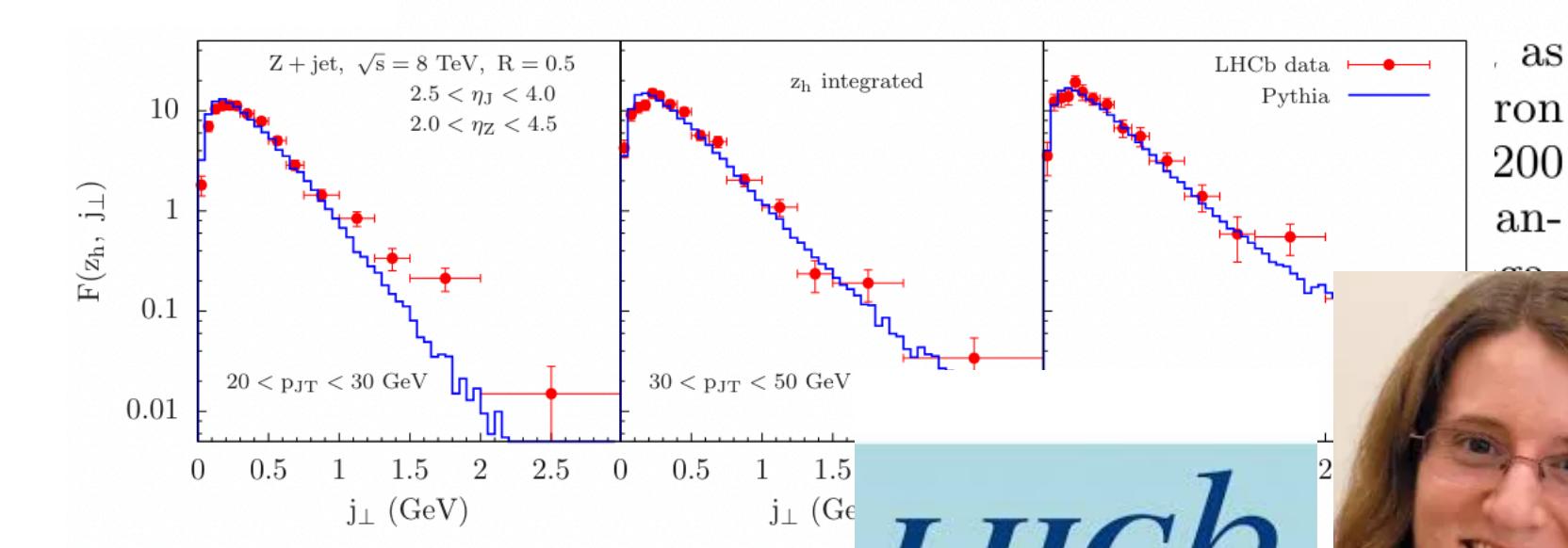
Kyle Lee



ALICE



STAR



# EXPERIMENTS MEET THEORY

Kyle Lee

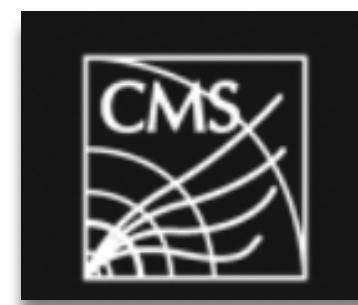
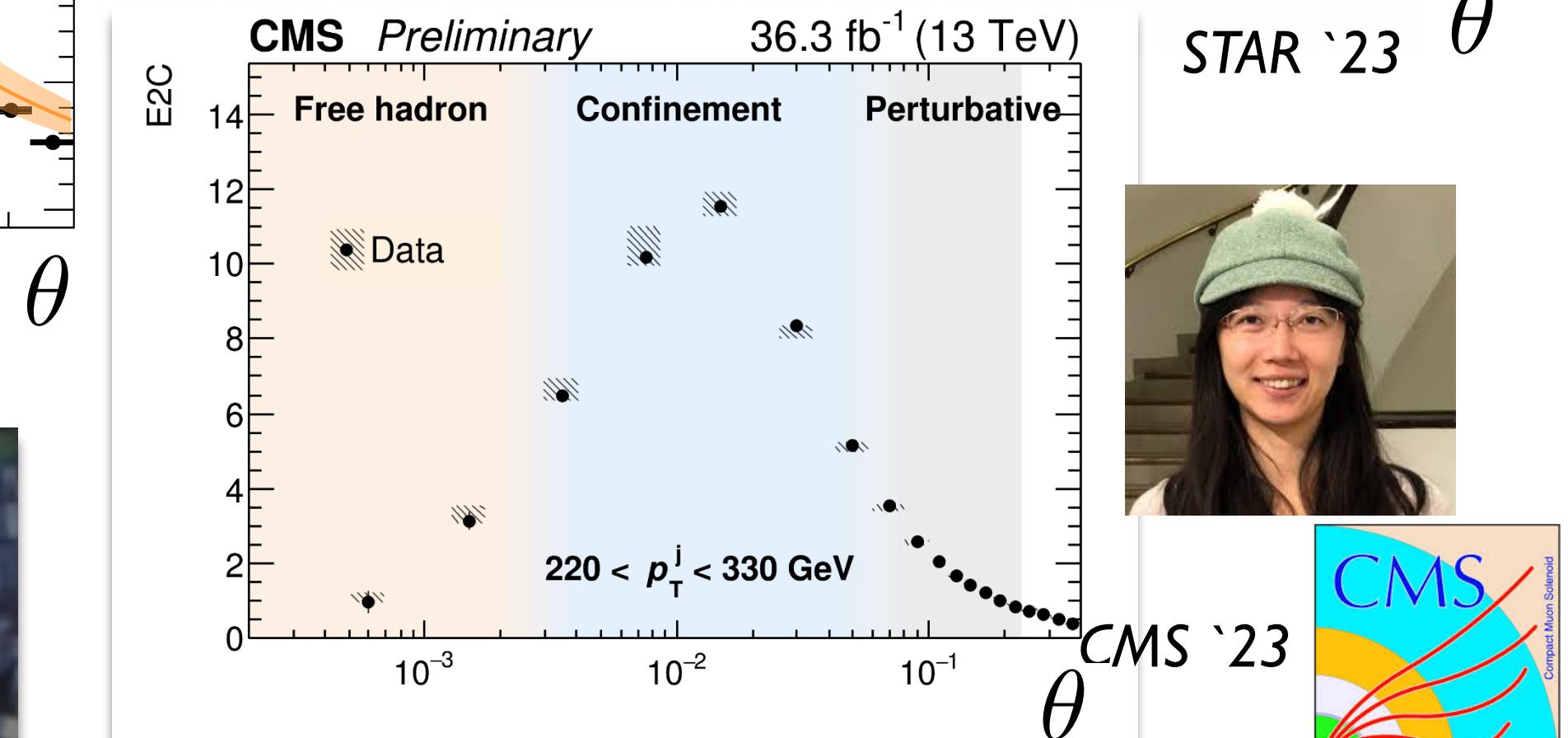
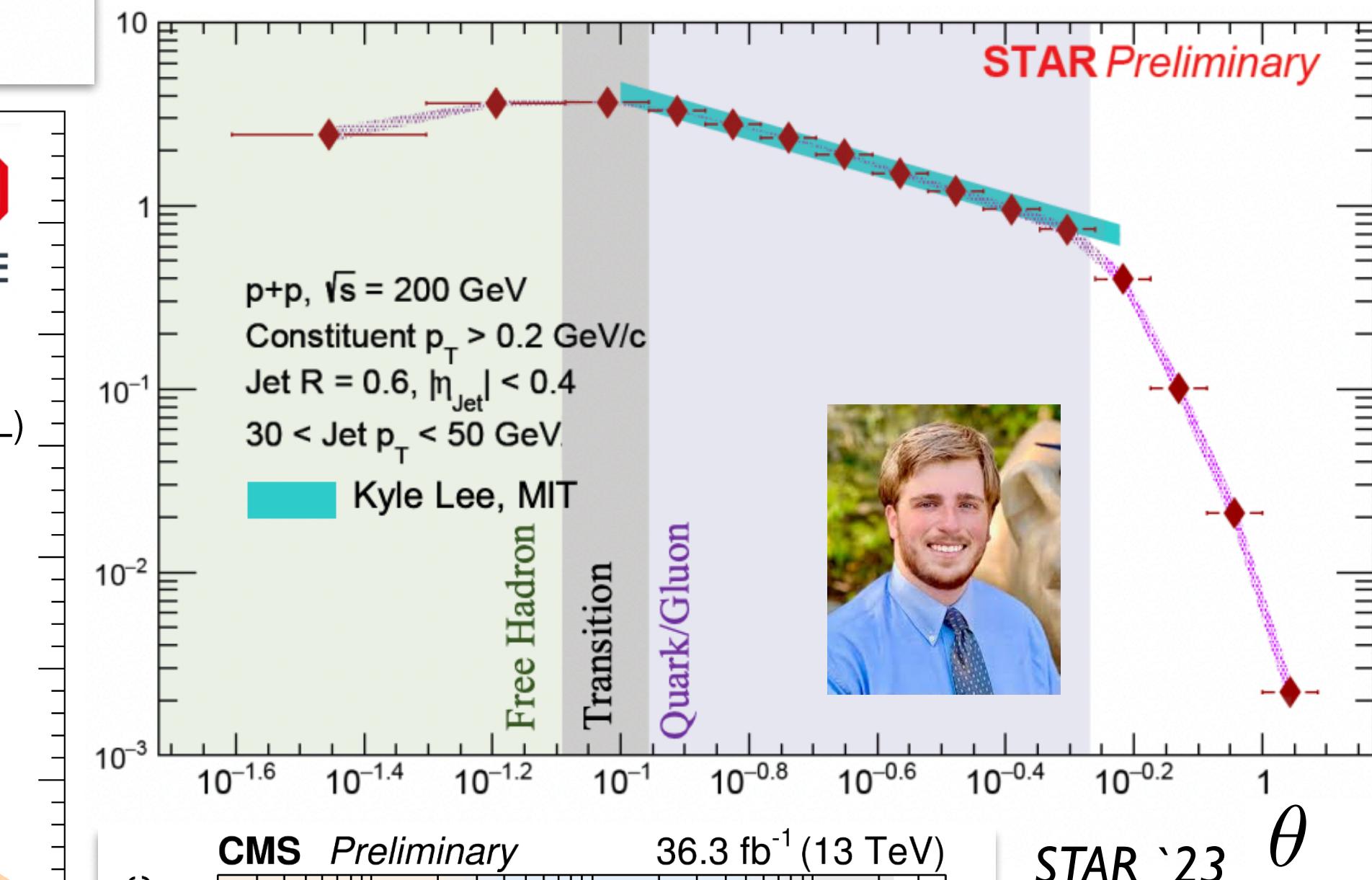
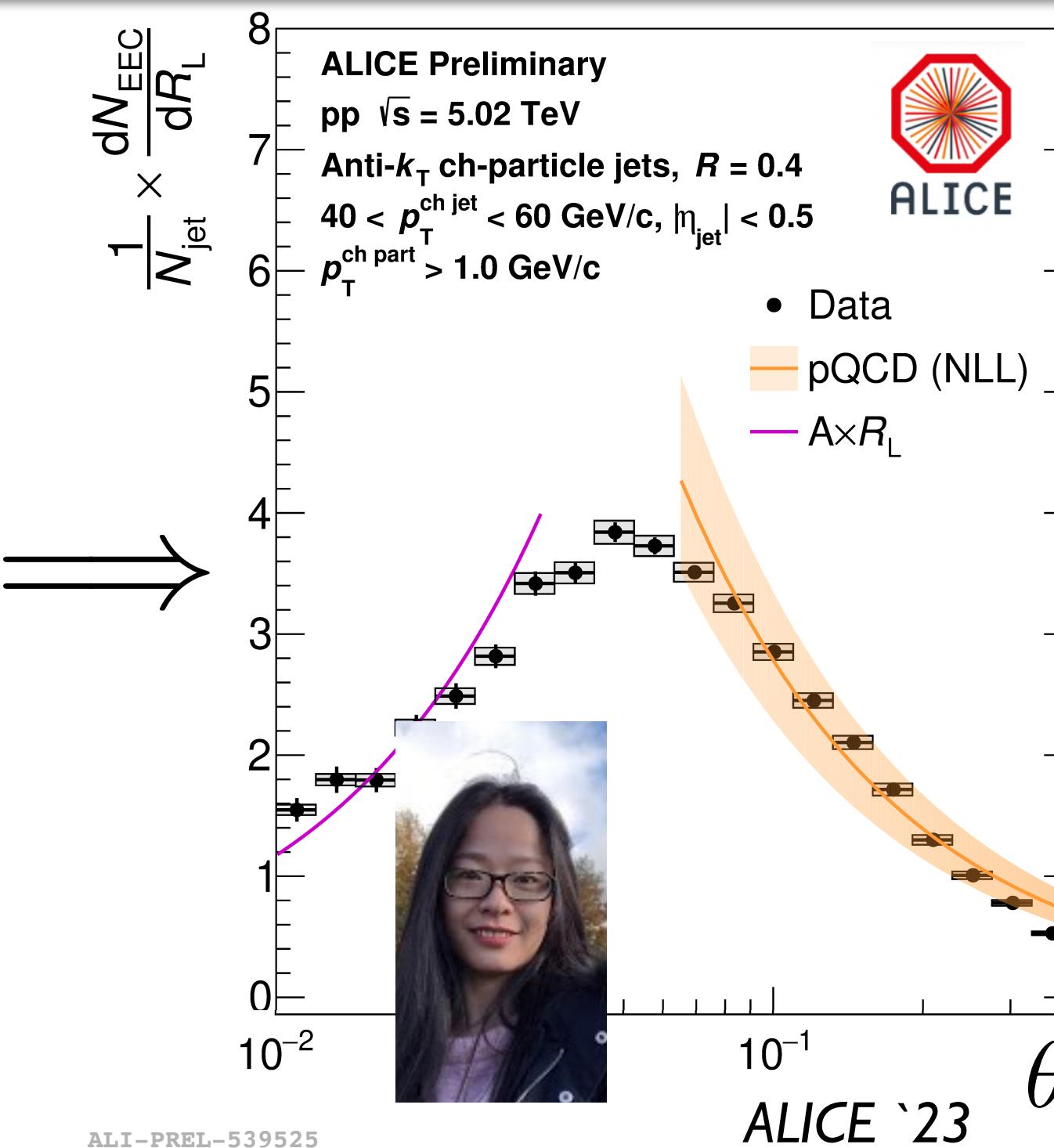
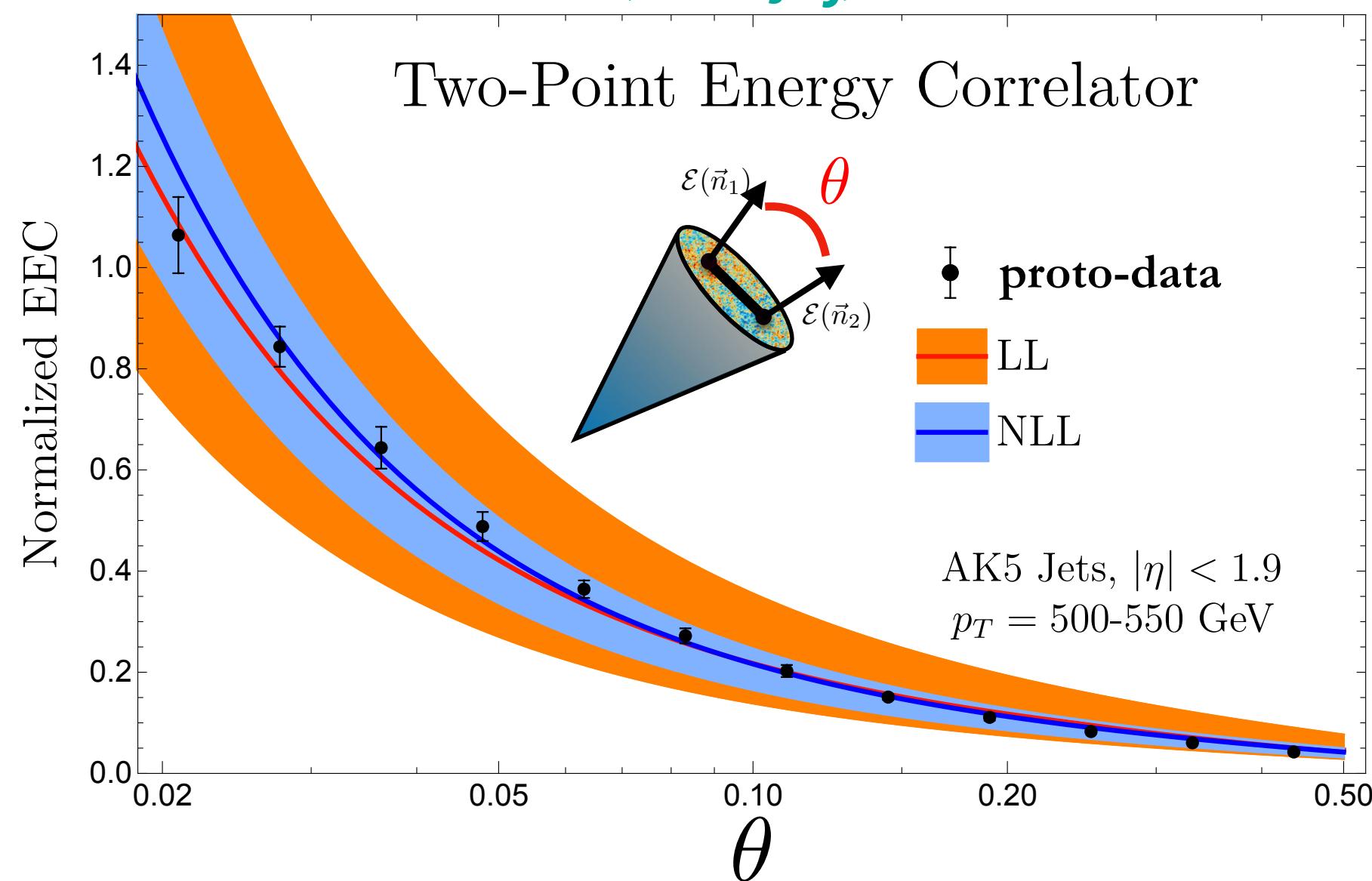


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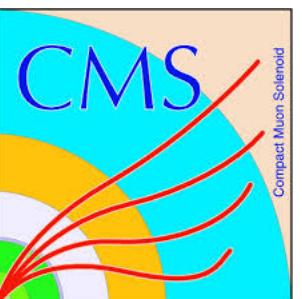
## Measuring energy correlators inside jets

3 November 2023

**KL, Meçaj, Moults '22**

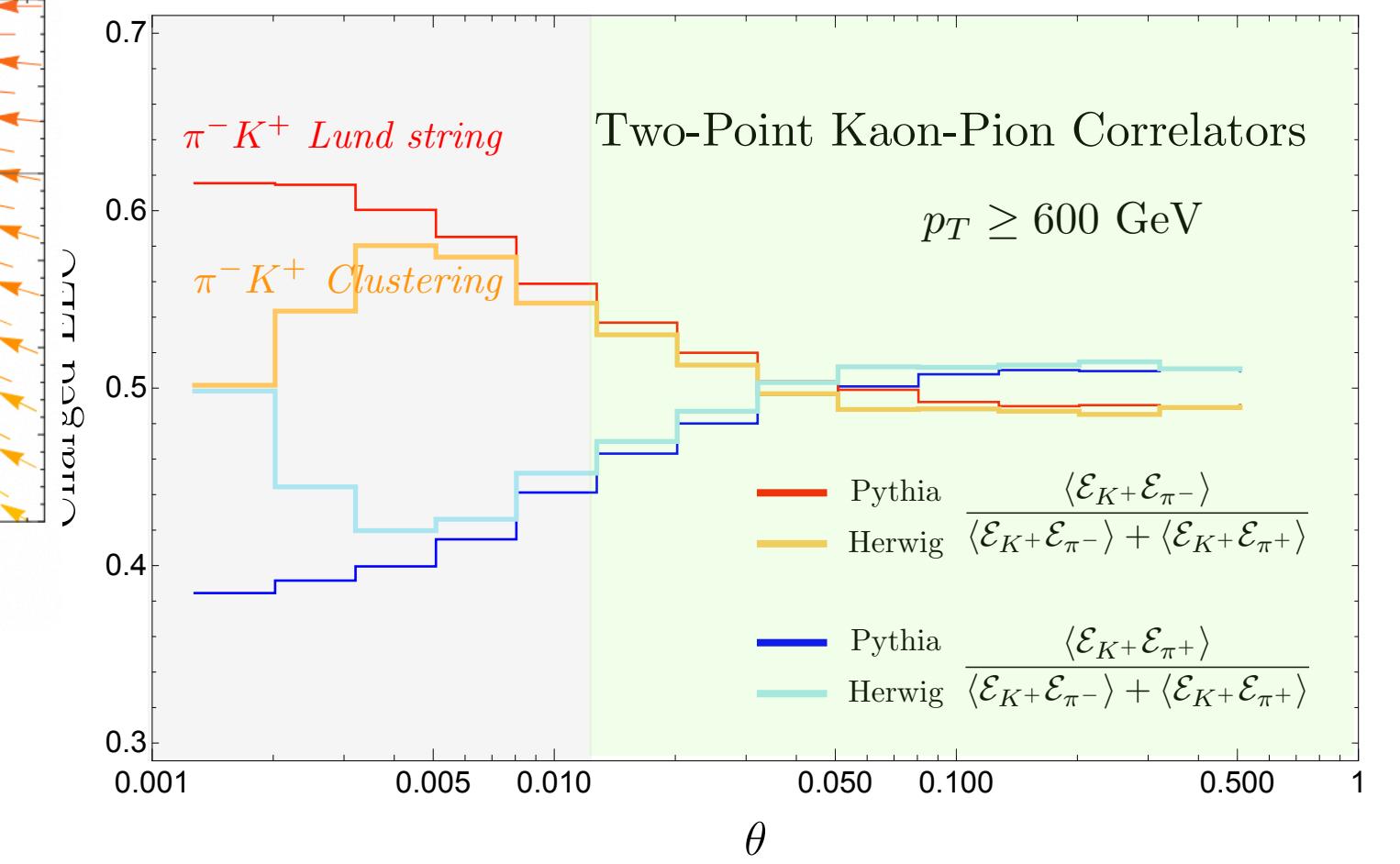
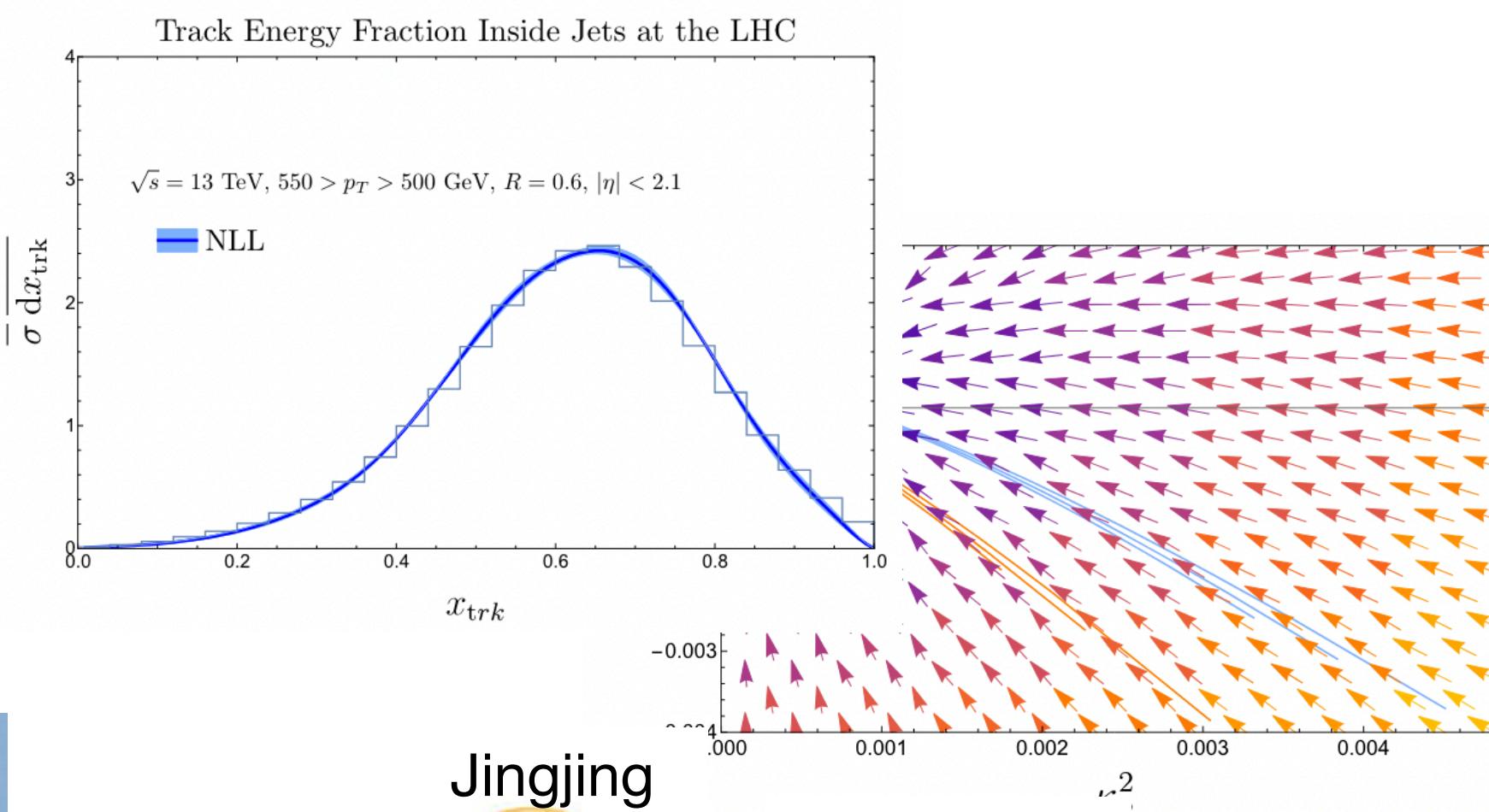
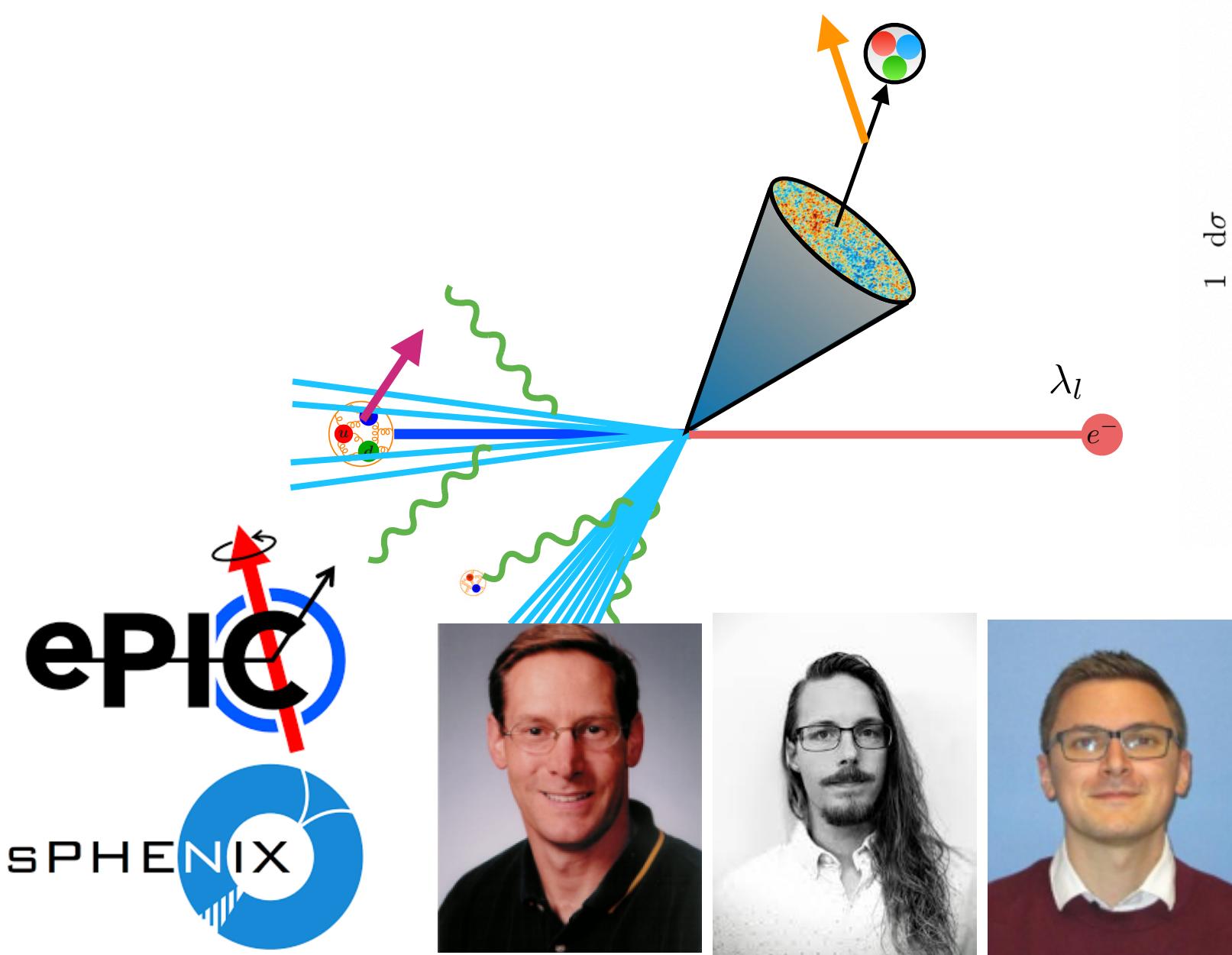
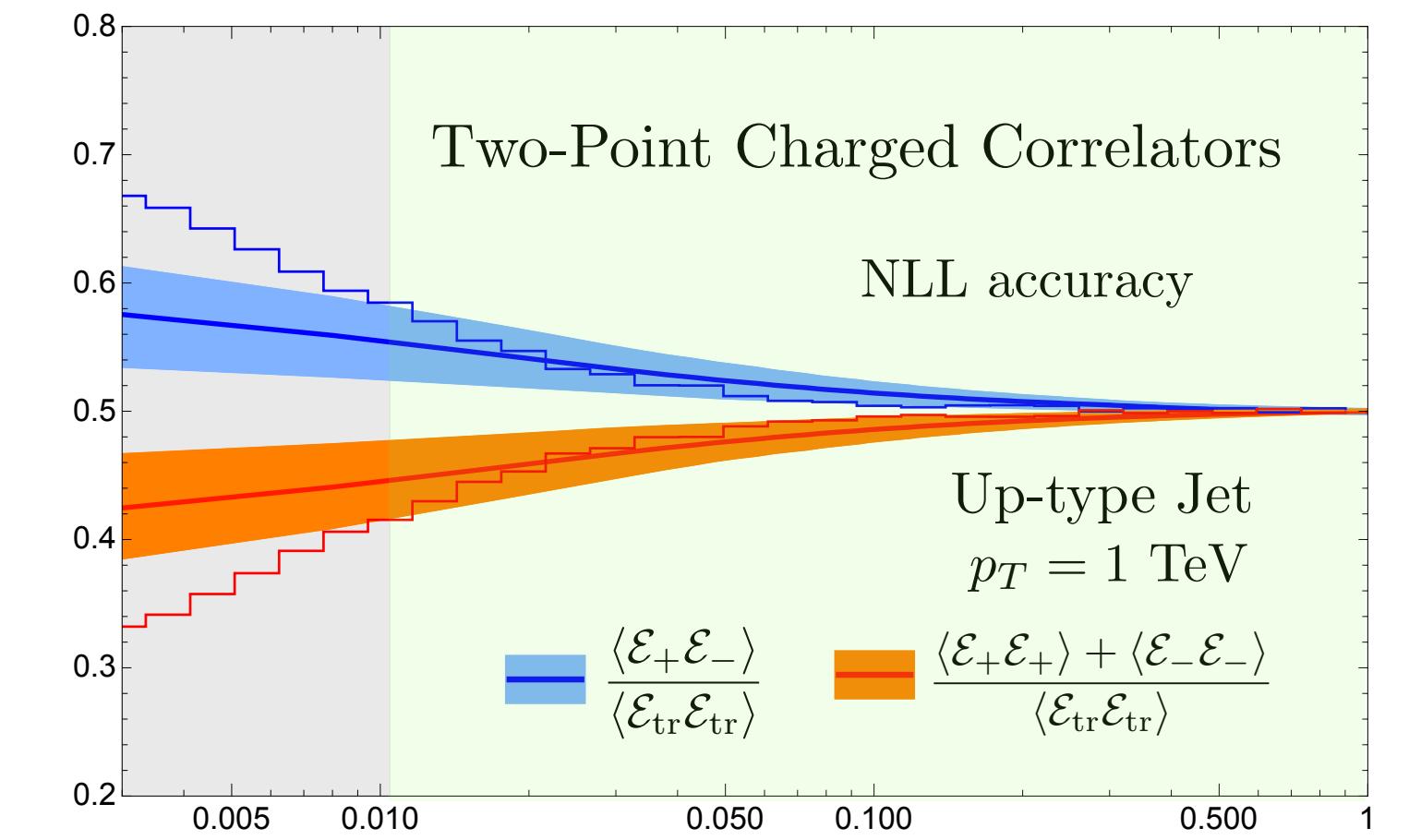
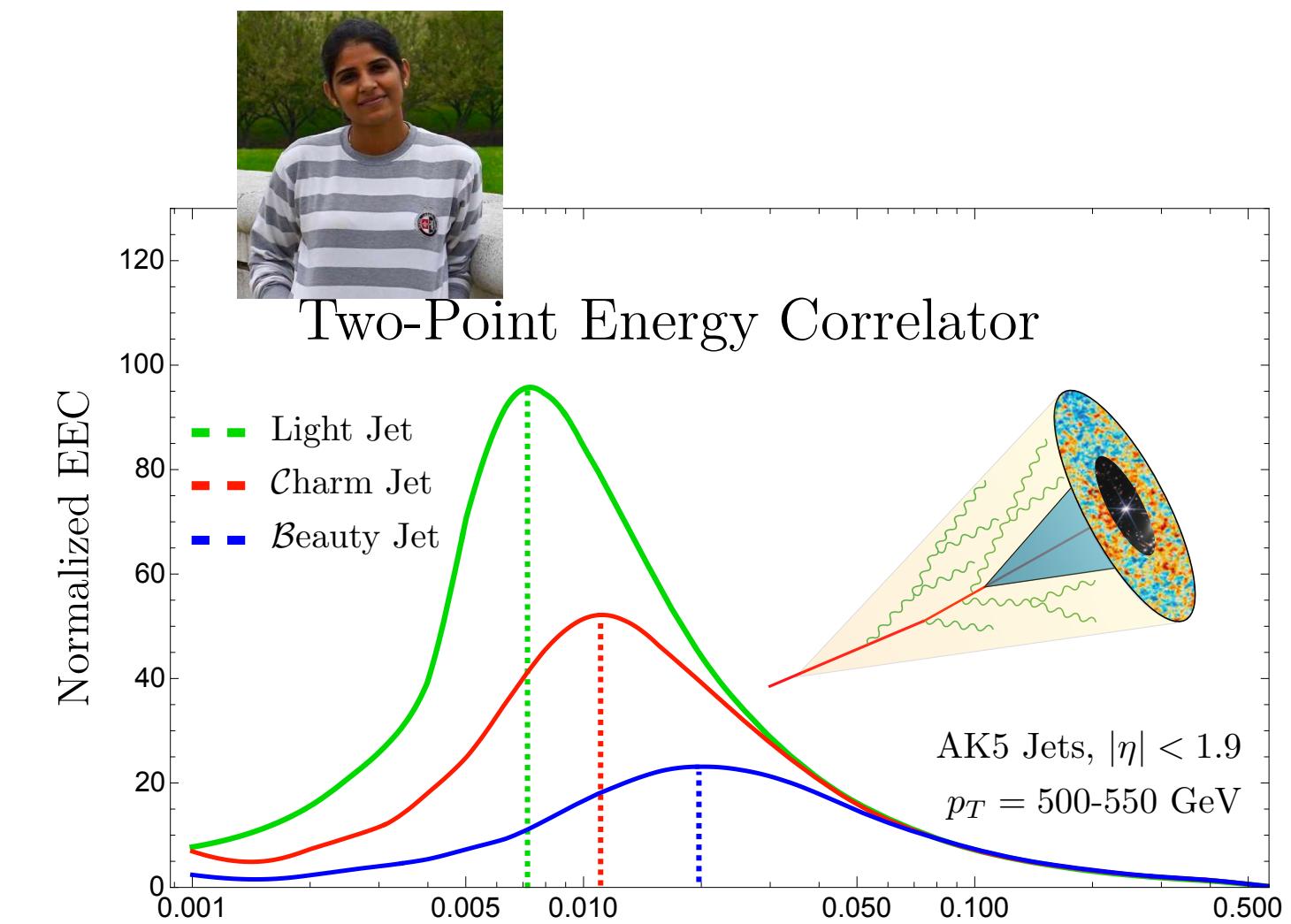
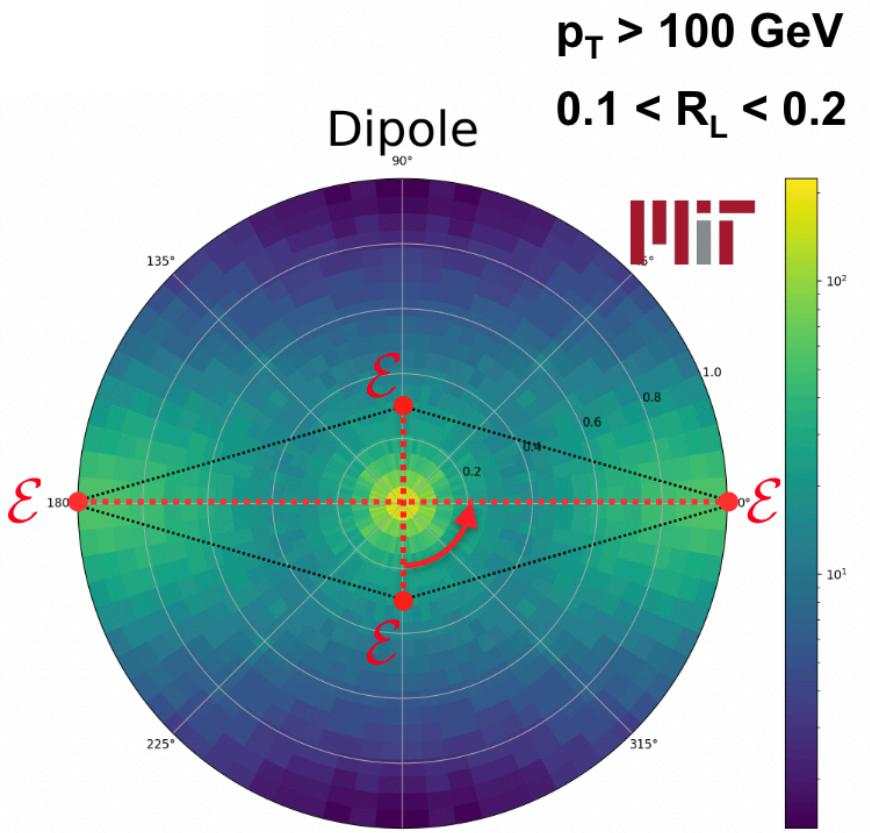
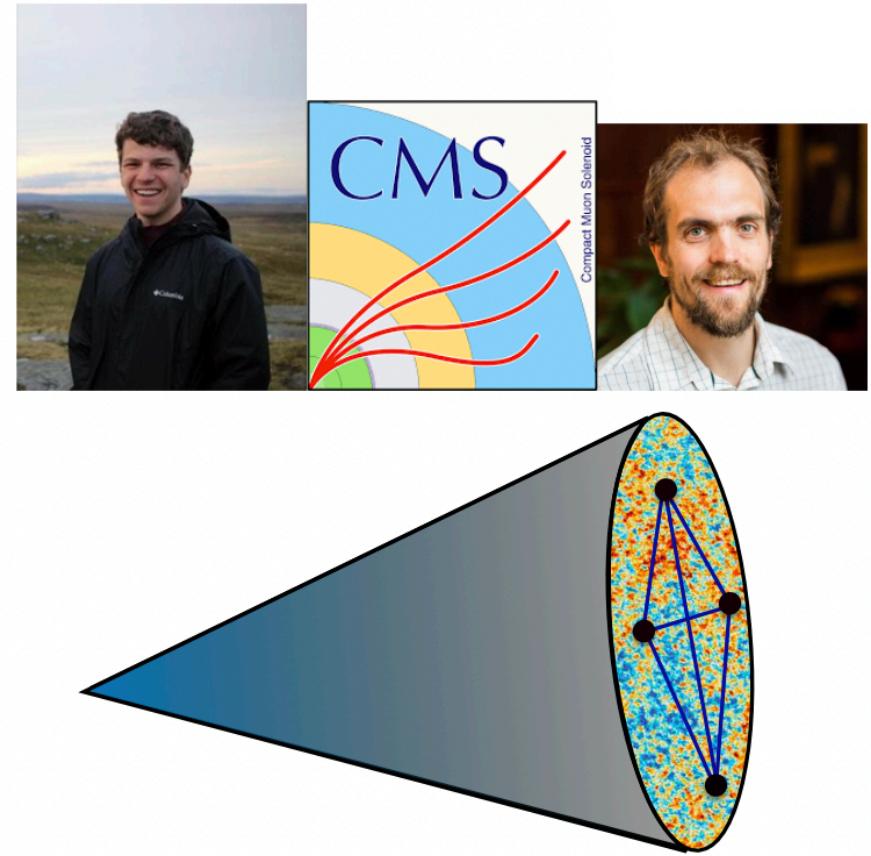


JETS ELUCIDATE HOW PARTONS  
EVOLVE INTO HADRONS



# EXPERIMENTS MEET THEORY

Kyle Lee



# EXPERIMENTS MEET THEORY

Kyle Lee

