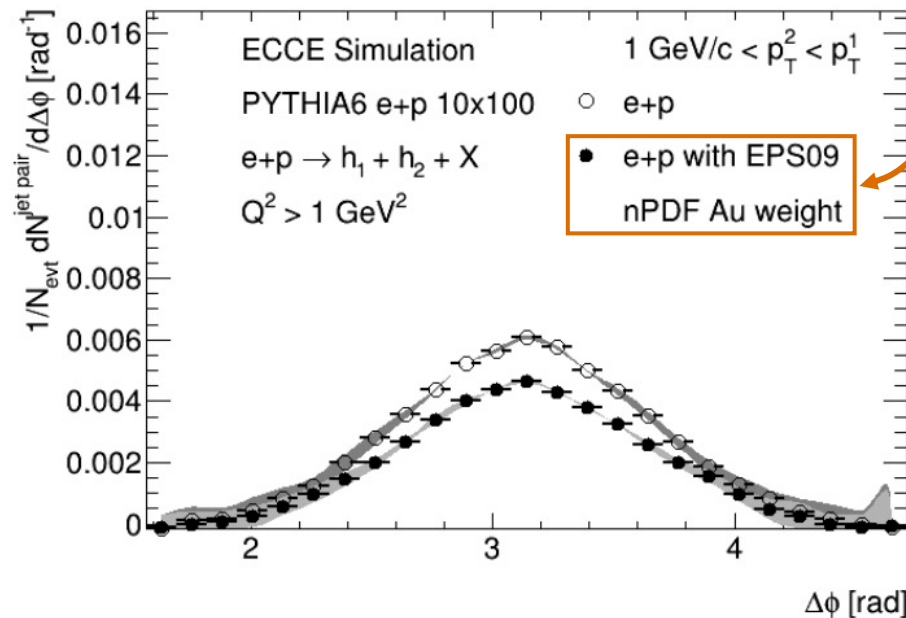


Two-Particle Correlations



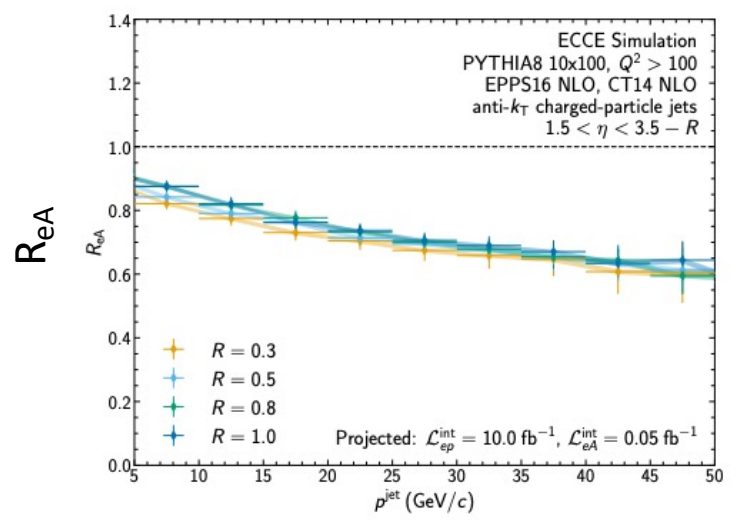
- Updated results with the July concept
- Systematics uncertainty included
- nPDF weighting for eA study

- Dijet correlations after subtracting flat background.
- Systematic uncertainty (grey band) is the difference between generator-level and reco-level correlations
- Conclusion: e+Au away-side suppression is larger than systematic difference between reco and generator

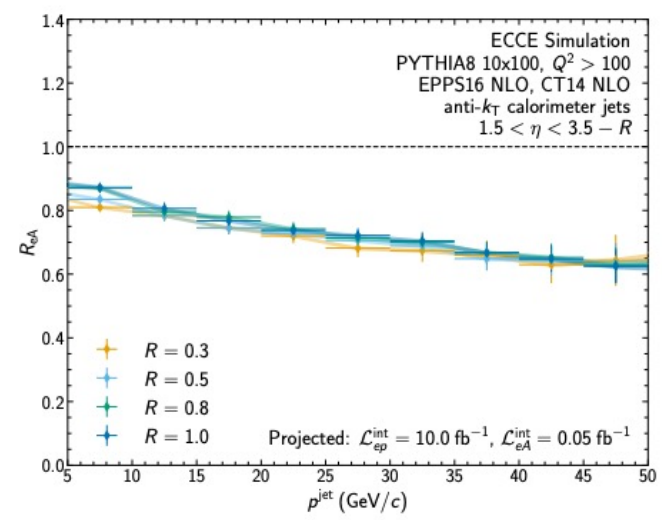


Jet R_{eA}

Charged jets

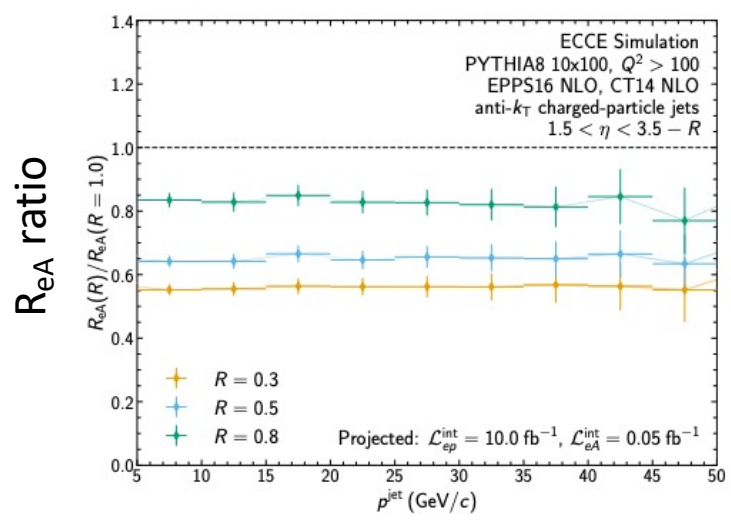


Calorimeter jets

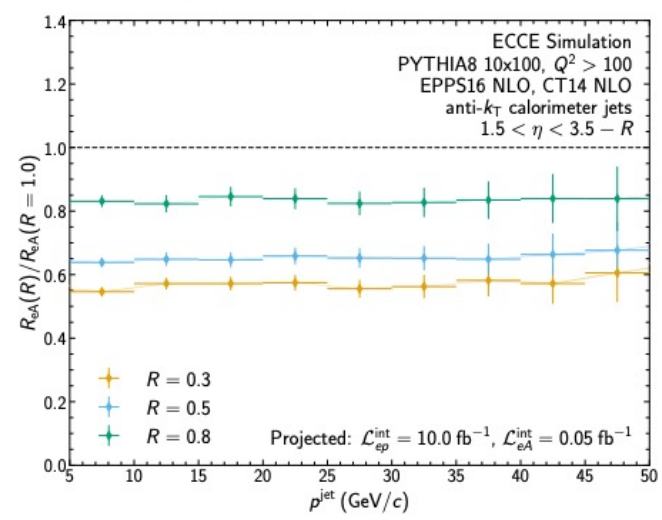


- Systematic uncertainty includes the nPDF weighting
- Include luminosity projection:
 $\mathcal{L}_{ep}^{int} = 10.0 \text{ fb}^{-1}$
 $\mathcal{L}_{eA}^{int} = 0.05 \text{ fb}^{-1}$
- Conclusion:
(1) ECCE can measure jet modification due to nuclear matter interactions in the forward region. (2) the projection of R_{eA} double ratio suggest that we can disentangle initial and final state modification

Charged jets



Calorimeter jets



Analysis Notes Status (11-05-2021)

Ecce_note_phys_2021_01 -- ECCE jet reconstruction performance

Released v0.1

Milap Petal (ISU) mrpind@iastate.edu

Ecce_note_phys_2021_10 -- Jets finding using Centauro Algorithm

Released v0.7

Anne Sickles (UIUC) sickles@illinois.edu

Ecce_note_phys_2021_08 -- Jet ReA

Released v0.1

Megan Connors (GSU) mconnors@gsu.edu

Christine Nattrass (UTK) interested christine.nattrass@utk.edu

Ecce_note_phys_2021_13 -- Two-particle correlations

Released v0.1 (expecting v0.2 release with systematic study)

Astrid Morreale (LANL) astrid@lanl.gov

Cesar da Silva (LANL) cesar_luiz@lanl.gov

Ecce_note_phys_2021_04 -- Open HF ReA

Released v0.1

Marzia (ISU) mrosati@iastate.edu

Ecce_note_phys_2021_15 -- J/psi photoproduction

Expecting 1st release in the week of 11-08-2021

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