

ECCE Physics Benchmarks Team IB Meeting Report

March 23rd, 2022

Carlos Muñoz, Rosi Reed



LEHIGH
UNIVERSITY

Recall - Analysis Notes

ECCE ID	Topic	Responsible
ecce-note-phys-2021-01	Jet performance note	Tristan Protzman
ecce-note-phys-2021-02	Diffraction and tagging group note	Bill Li, Axel Schmidt
ecce-note-phys-2021-03	Exclusive processes group note	Julie Roche, Rachel Montgomery
ecce-note-phys-2021-04	ReA for D&B	Xuan Li
ecce-note-phys-2021-05	SIDIS kinematics	Ralf Seidl & Charlotte van Hulse
ecce-note-phys-2021-06	SIDIS spin asymmetries with single hadrons	Ralf Seidl & Charlotte van Hulse
ecce-note-phys-2021-07	SIDIS unpolarized TMD measurements	Ralf Seidl & Charlotte van Hulse
ecce-note-phys-2021-08	Jet ReA	Raymond Ehlers
ecce-note-phys-2021-09	Inclusive processes group note	Tyler Kutz & Claire Gwenlan
ecce-note-phys-2021-10	Centrauro jets (JL)	John Lajoie
ecce-note-phys-2021-11	SIDIS (A_LL)	Ralf Seidl & Charlotte van Hulse
ecce-note-phys-2021-12	Spectroscopy	Derek.Glazier@glasgow.ac.uk
ecce-note-phys-2021-13	Dihadrons	Nathan grau
ecce-note-phys-2021-14	BSM group note	xiaochao@jlab.org
ecce-note-phys-2021-15	Quarkonium note	Xinbai Li

Analysis Notes

- Some notes will be combined into a single paper so the evolution of notes → papers is not 1-to-1
- Paper authors (PAs) have set up overleafs with new IDs with titles and outlines
- Tomorrow (March 29) PWG meeting to discuss the status of each paper
- ~April 11: presentation of the papers to the collaboration during the bi-weekly meeting if that is when it is scheduled
- Goal is to have papers publication ready by end-of-April

First ECCE Physics Papers

ecce-paper-phys-2022-01	eA diffractive paper	Peter Steinberg
ecce-paper-phys-2022-02	diffractive and tagging paper	Bill Lee & Axel Schmidt
ecce-paper-phys-2022-03	SIDIS double spin asym.	Charlotte
ecce-paper-phys-2022-04	HF	Xuan
ecce-paper-phys-2022-05	Jets	Rosi, Ping, John, Tristan, Nathan, Nicolas, Raymond
ecce-paper-phys-2022-06	SMEFT/EW	Xiaochao
ecce-paper-phys-2022-07	SIDIS kinematics	Ralf Seidl & Charlotte van Hulse
ecce-paper-phys-2022-08	SIDIS spin asymmetries with single hadrons	Ralf Seidl & Charlotte van Hulse
ecce-paper-phys-2022-09	SIDIS unpolarized TMD measurements	Ralf Seidl & Charlotte van Hulse

Still need IDs: Inclusive paper, ep J/ψ photoproduction near threshold

Note: There are detector and computational papers in the works as well!

Conclusions

- See next talk on EW/SMEFT Paper by Xiaochao Zheng!
 - First paper for collaboration review!
- PWG meeting on paper status:
 - <https://indico.bnl.gov/event/15290/>
 - <https://lehigh.zoom.us/j/94298536101?pwd=bU1Tb05CemE2NThYT0dyWjhwcG1PUT09>
- General strategy is for papers to mostly only cover what was done for the proposal (with corrections)
 - We encourage people to continue to work, these are only the first and not the last papers!