

Exclusive, Diffractive and Tagging Publication Discussion

March 28

Axel, Julie, Rachel, Bill

Weekly meeting time: Tuesday 10:00 am EST

Paper overleaf repository

- **Exclusive, Diffractive and Tagging Summary Paper**

ecce-paper-phys-2022-03

- **eA Diffractive study ($e + Pb \rightarrow e' + J/\psi + X$ and $e + Pb \rightarrow e' + \phi + X$)**

ecce-paper-phys-2022-02

- **eP Jpi production**

- Led by Wangmei and Xinbai

Timeline

- **April 11-20: presentation of the paper to the collaboration (during the bi-weekly meeting).**
- **Paper ready for submission by the first week of May.**

Simulation Status

- **Bug fixed:**
 - Roman Pot location loading was not functioning properly **[Done]**
 - eA beam parameterization selection was wrongly implemented **[Done]**
 - Low Q2 tagger configuration needs to be fixed **[Done]**
- **Pending request:**
 - DVCS (hi divergence and hi acceptance) **[Done]**
 - ep J/psi (hi divergence and hi acceptance) **[Done]**
 - eA J/psi (eAu) **[Done]**
 - Double tagging (hi divergence and hi acceptance) **[Done]**
 - eHe⁴ DVCS (hi divergence and hi acceptance) **[Done]**
 - TCS (hi divergence and hi acceptance) **[Done]**
 - XYZ meson (hi divergence and hi acceptance) **[Done]**
- **Simulation Status:**
<https://docs.google.com/spreadsheets/d/1VFthz9dogk1DCxgdEtdiuPmTbxXhwVgyXeqCbPmswRw/edit?usp=sharing>

eA Diffractive Study Paper

- **Process:** $e + Pb \rightarrow e' + J/\psi + X$ and $e + Pb \rightarrow e' + \phi + X$
- **Separate submission**
 - PRC
- **Further Simulation study**
 - Larger statistics: files are transferred to JLab
 - Particle gun study, simulation files are ready,
 - There is an issue with the simulation
- **Analysis code**
 - Event_Evaluator + after burner
- Simulation completed for J/ψ

