



eA Study Group – formation and its activities

- Kong Tu, BNL

Disclaimer: this is not a physics talk



Group formation

Why eA Study Group is formed?

We (at least I) think there are too many meetings happening, but too few are focused on discussing physics or realizing physics, e.g., in ePIC or EIC 2nd detector.

What is the goal?

To stimulate or kick-start physics discussions, provide an encouraging environment that "feel free to discuss a new idea", **help beginners get started** with their EIC physics involvement that it is difficult for the collaboration to do, **follow up with weekly analysis update**, help **publishing papers for early-career scientists**, and facilitate the ePIC developments on multiple fronts.

Who can come?

Anyone. This is not part of the ePIC Collaboration. It's self organizing and anyone can come and go as they wish.



Group information

Email list: microsoft.com, if you want to join, contact Kong (kongtu@bnl.gov)

Mattermost channel: eA Study Group under ePIC

Indico page for weekly meeting: https://indico.bnl.gov/category/470/

First meeting: March 9, 2023

Number of members: 28-30

Average number of participants per week: 6-8 (30% of all members)



Group interests

Name	Task 1	Task 2	Task 3
Michael Pitt	eA VM coh & incoh	photon-photon & BSM	FF detectors & B0
Eden Mautner	eA VM coh & incoh	photon-photon & BSM	
Bill Lee	backward u channel	photon-photon & BSM	
Zachary Sweger	backward u channel	eSTARlight	
Ziyuan Zhang	backward u channel	Event Display	
Charles Joseph Naim	eA VM coh & incoh	A-dependence	Nuclear structure & fluctuation
Peter Steinberg	inclusive eA diffraction	eA VM coh & incoh	
Minjung Kim	eA VM coh & incoh	Upsilon threshold production	
Niv Ramasubramannian	DVCS/DVMP	Light nuclei	
Jackson	incoherent in light nuclei		
Jason Phelan	incoherent in light nuclei		
Alex Jentsch	incoherent in light nuclei	FF detectors	
Kong Tu	eA VM coherent & incoherent	incoherent in light nuclei	BeAGLE
Mark Baker	eA everything	BeAGLE	
Niseem Magdy	Deformation	BEAGLE	
Jan Vanek	Lambda spin-spin correlation.		
Jaydeep	ep/A VM with muon final-states		
Tyler Hague	Pion structure with neutron tagging	DEMP	

Mostly, people focus on exclusive reactions. However, we invite other interests and theorists to join too.



A few examples

eAstudy group Low energy photons in BO 27 June 2023 Zvi Citron, Eden Mautner, <u>Michael Pitt</u>

אוניברסיטת בן-גוריון בנגב جامعة بن غوريون في النقب Ben-Gurion University of the Negev

27 June 2023



27 June 2023











Summary

It's been only for a few months; I think it's been successful and productive. Many more analyses are coming.

Rome wasn't built in a day; building an active community is the key.

You, your students/postdocs, or your supervisors are all welcomed to join.