MCEGs

for future ep and eA facilities

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Rivet ep preservation workshop

- Indico Agenda: https://indico.desy.de/indico/event/22030/
  - Vidyo available: https://vidyoportal.cern.ch/flex.html?roomdirect.html&key=Nh6qpY4rP69Q

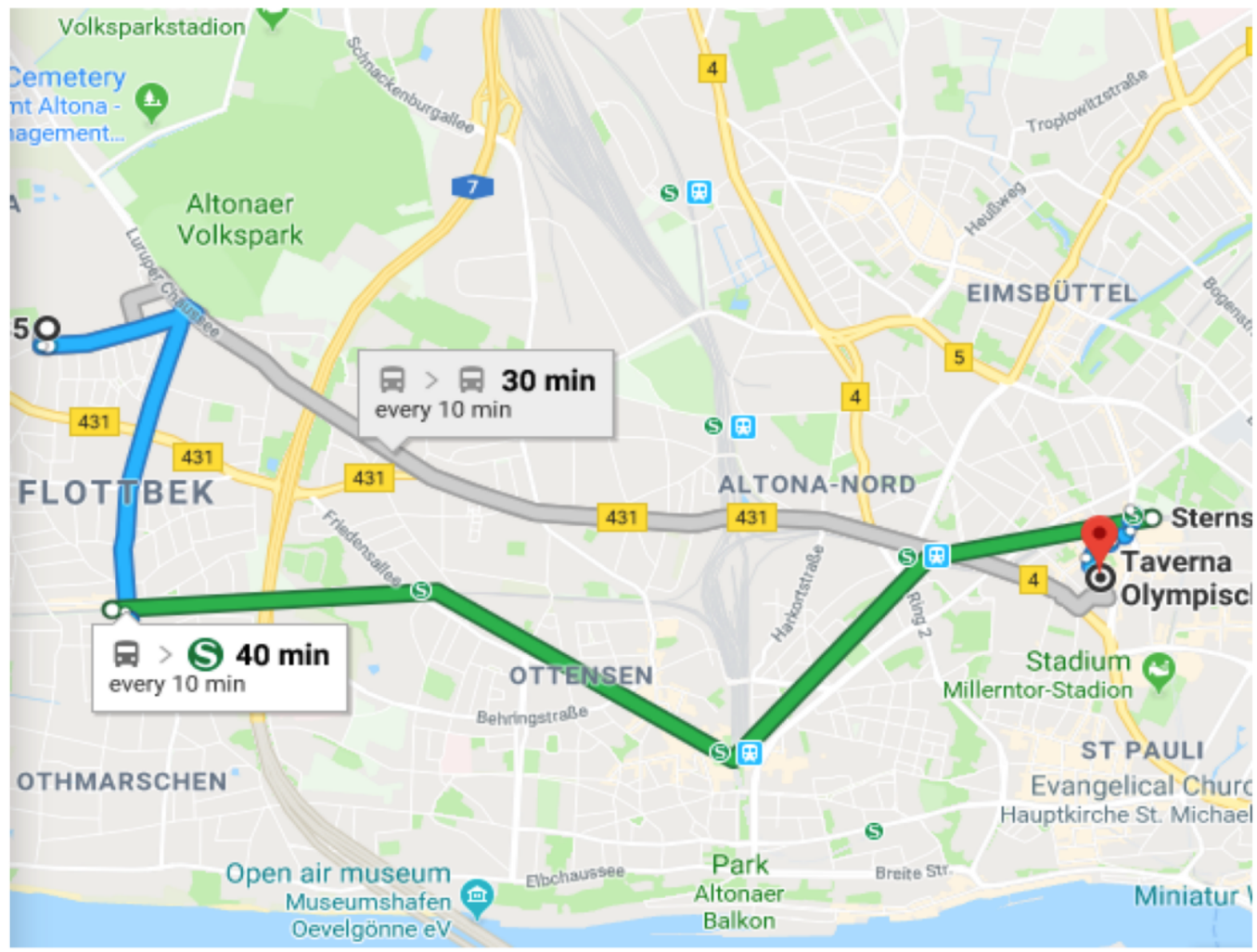
Goals

- review of existing MC tools (today)
- discussion of new developments
  - TMDs in MCEG (sessions tomorrow)
  - GPDs in MCEG (session tomorrow)
- discussion of needs for analyses at future ep/eA facilities (Friday)

- Productive discussions at Rivet ep preservation meeting
  - inclusion of HERA analyses
    - new ones and RivetHZTool interface
  - discussion of tools

Announcements

- Going out tonight (self pay) to Olympisches Feuer, Schulterblatt 36, 20357 Hamburg
  - please sign up in list



Agenda

Wednesday, 20 February 2019

14:00 - 15:40	General-Purpose MCEG: Precision for ep processes		
	14:00	**Simulation of ep and eA processes in general-purpose MCEG** *30'*	Speaker: Ilkka Helenius
	14:30	**Status of (N)NLO simulations for ep and eA processes** *30'*	Speaker: Stefan Hoeche
	15:00	**Status of aMC@NLO for DIS** *10'*	Speaker: Buarque Franzosi Diogo
	15:10	**Discussion** *30'*	
15:40 - 16:00	Coffee		
16:00 - 18:00	General-Purpose MCEG: Combining QED+QCD effects		
	16:00	**QED corrections** *30'*	Speaker: Prof. Hubert Spiesberger (Johannes Gutenberg- Universität Mainz)
	16:30	**Semi-analytic vs. Monte-Carlo Approaches for QED Corrections to SIDIS** *30'*	Speaker: Prof. Andrei Afanasev (George Washington University)
	17:00	**Discussion and next steps** *1h0'*	

Thursday, 21 February 2019

09:00 - 10:30	TMDs and MCEGs: Part I		
	09:00	**PB - TMDs** *30'*	Speaker: Francesco Hautmann
	09:30	**PB TMDs for nucleons** *30'*	Speakers: Alexander Kusina, Krzysztof Kutak
	10:00	**Matrix element calculations with off shell partons: KaTie** *30'*	Speaker: Andreas van Hameren
10:30 - 11:00	Coffee		
11:00 - 12:00	TMDs and MCEGs: Part II		
	11:00	**Full event generator with TMDs: CASCADE-3** *30'*	Speaker: Hannes Jung (DESY)
	11:30	**Revisited version of a recursive model for the fragmentation of polarized quarks** *30'*	Speaker: Albi Kerbizi (University of Trieste)
12:00 - 14:00	Lunch		
14:00 - 15:30	TMDs and MCEGs: Part III		
	14:00	**Discussion: TMDs and MCEG** *1h30'*	
15:30 - 16:00	Coffee		
16:00 - 18:30	GPDs and MCEGs		
	16:00	**Towards event generation for GPD physics with PARTONS** *30'*	Speaker: Dr. Herve Moutarde (IRFU, CEA)
	16:30	**DVCS and exclusive pi0 event generator for JLab fixed-target experiments** *30'*	Speaker: Dr. Carlos Munoz (IPN-Orsay)