

Soft photons – the higher orders

May 26, 2025, Heidelberg University

- Topics:**
- In-depth investigations of recent state-of-the-art higher-order corrections on soft-photon production and potential inconsistencies regarding momentum conservation.
 - Exploring the potential to test fundamental properties of gauge theories in the soft sector using the LHCf experiment at the LHC, particularly in the most forward rapidity region, with a focus on the upcoming oxygen run in 2025.
 - Advancing the conceptual design of an ultra-low p_T forward photon spectrometer with the proposed ALICE 3 Experiment.

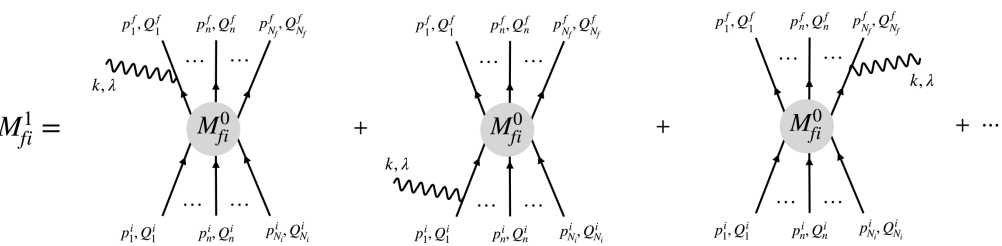


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Organizer:
Kai Schweda (GSI/U Heidelberg, Germany)

Website:
<https://indico.gsi.de/event/22295>

Information:
www.gsi.de/emmi/workshops

More about EMMI:
www.gsi.de/emmi

Welcome to **41 participants!**

21 in-person
20 via zoom

from **theory** and **experiments**
world-experts and **newcomers**

goal
(1) address soft photon production - the higher orders

(2) explore potential to test fundamental properties of gauge theories in the soft sector by using the LHCf experiment

(3) Advance design of forward photon spectrometer (FCT) with ALICE 3

Thanks to **EMMI** for **generous support!**



ORGANIZATIONAL MATTERS

two coffee breaks (morning and afternoon)

lunch: Bellini (a la carte)

conference dinner: da Claudia,

please sign up which **food** you'd prefer for your main course

- (1) Sea bass fillet with vegetables and rice
- (2) Lemon veal cutlet with vegetables and croquette
- (3) Pepper sauce veal cutlet with vegetables and croquettes

*We're aware of your preference for vegan or gluten-free options

MOST IMPORTANTLY



Maria Wallner
EMMI-Office



Natalie Nicol
EMMI-Office



Alexandra Holten
Secretariat Johanna Stachel

**Thank you so much for your excellent organization of this workshop.
You made everything run smoothly and successfully !**