



Discussion on policies

- **Authorship**
- **Membership**
- **Data management**

Publications (18)

■ Generation of configurations (3)

■ g-2 (3)

■ Baryons (1)

■ Special topics (5)

■ Prehistory (6)

2023 Hutch++ and XTrace to Improve Stochastic Trace Estimation
Cotellucci, Patella

2023 Hadronic vacuum polarization with C^* boundary conditions
Altherr, Gruber, Bushnaq, Campos, Catillo, Cotellucci, Dale, Fritzschn, Komijani, Lücke, Krstić Marinković, Martins, Patella, Tantaló, Tavella
PoS LATTICE2022 312

2023 $N_f = 1+2+1$ QCD+QED simulations with C^* boundary conditions
Lücke, Altherr, Bushnaq, Campos, Catillo, Cotellucci, Dale, Fritzschn, Gruber, Krstić Marinković, Patella, Tantaló, Tavella
PoS LATTICE2022 064

2023 Finite-Size Effects of the HVP Contribution to the Muon g-2 with C^* B.C.
Martins, Patella
PoS LATTICE2022 323

2023 Tuning of QCD+QED simulations with C^* boundary conditions
Altherr, Bushnaq, Campos, Catillo, Cotellucci, Dale, Fritzschn, Gruber, Lücke, Marinkovic, Patella, Tantaló, Tavella
PoS LATTICE2022 259

2023 Towards Lattice QCD+QED Simulations on GPUs
Gruber, Kozhevnikov, Marinkovic, Schulthess, Solca

2023 Strange and charm contributions to the HVP from C^* boundary conditions
Altherr, Bushnaq, Campos, Catillo, Cotellucci, Dale, Fritzschn, Gruber, Komijani, Lücke, Krstić Marinković, Martins, Patella, Tantaló, Tavella
PoS LATTICE2022 281

2023 First results on QCD+QED with C^* boundary conditions
Bushnaq, Campos, Catillo, Cotellucci, Dale, Fritzschn, Lücke, Krstić Marinković, Patella, Tantaló
JHEP 03 012

2022 Baryon masses from full QCD+QED $_C$ simulations
Dale, Bushnaq, Campos, Catillo, Cotellucci, Fritzschn, Lücke, Marinković, Patella, Tantaló
PoS LATTICE2021 373

2022 An update on QCD+QED simulations with C^* boundary conditions
Luecke, Bushnaq, Campos, Catillo, Cotellucci, Dale, Fritzschn, Marinković, Patella, Tantaló
PoS LATTICE2021 293

2022 Performance optimizations for porting the openQ * D package to GPUs
Gruber, Kozhevnikov, Marinković, Schulthess, Solcà
PoS LATTICE2021 491

2022 Implementing noise reduction techniques into the OpenQ * D package
Bushnaq, Campos, Catillo, Cotellucci, Dale, Lücke, Patella, Peardon, Tantaló, Marinković
PoS LATTICE2021 363

2020 openQ * D code: a versatile tool for QCD+QED simulations
Campos, Fritzschn, Hansen, Marinkovic, Patella, Ramos, Tantaló
Eur.Phys.J.C 80 195

2018 Gauge invariant determination of charged hadron masses
Hansen, Lucini, Patella, Tantaló
JHEP 05 146

2018 Simulations of QCD and QED with C^* boundary conditions
Hansen, Lucini, Patella, Tantaló
EPJ Web Conf. 175 09001

2018 openQ * D simulation code for QCD+QED
Campos, Fritzschn, Hansen, Marinković, Patella, Ramos, Tantaló
EPJ Web Conf. 175 09005

2017 QED Corrections to Hadronic Observables
Patella
PoS LATTICE2016 020

2016 Charged hadrons in local finite-volume QED+QCD with C^* boundary conditions
Lucini, Patella, Ramos, Tantaló
JHEP 02 076

Authorship policy

- Is it possible to define unambiguous rules?
- Possible extreme solutions:
 - Only people who have contributed in a significant way to the development of the science presented in the paper can sign it.
What does significant mean?
 - Each members of the collaboration is given the possibility to sign all papers.
Which papers belong to the collaboration?
Who are the members of the collaborations?
What if somebody becomes member the day before the paper is submitted for publication?
- Some personal opinions:
 - The authorship policy should not discourage free discussions within the collaboration (e.g. in our regular calls).
 - People who spend a significant amount of time on the generation of the configurations and in code development should get recognition for indirect contribution in observable papers.
 - The authorship policy can be stricter for peer-reviewed papers than conference proceedings.
 - People must have the possibility to opt out.
- Add a section with individual contributions. (In general, or at least for indirect contribution).
- MILC: you gain the right to sign all papers of the collaborations after you are the "first-author" of a paper within the collaboration
- When a paper is planned, a notification is send to all the collaboration and people can show interest in being involved. (Inclusive, but not automatic). Important to make feel people welcome to join a project.
- Encourage publication of specific topics (e.g. renormalization...) and do not necessarily wait for the final paper.
- Difference between indirect contribution and service work (writing proposals, developing the infrastructure for a configuration catalog)?

Authorship board

- ▶ Draft the **authorship guidelines** and an **authorship attribution process**, steer a discussion within the collaboration, build a broad consensus (timescale: 2 months).
- ▶ The authorship attribution process could be something like this:
 - ▶ Usually there is a core of people writing the paper. These people should recommend a list of authors in compliance with the guidelines, and submit the proposal to the authorship board.
 - ▶ The authorship board reviews the proposal, proposes possible amendments, collects possible complains.
 - ▶ In case of disagreement, the authorship board mediates the conflict and facilitates its resolution.
- ▶ Obviously, an authorship attribution process can work only if one allows for enough time. This is usually a problem when we submit abstract for the Lattice conference the day of the deadline.
- ▶ Proposal:
 - ▶ Only the speaker appears as author of talks at the Lattice conference. We make clear that the author speaks on behalf of the collaboration (is there a collaboration field in the abstract submission form?).
 - ▶ The list of authors is put together after the talk, in view of the proceedings.

People and membership

Current members

David Albandea
Anian Altherr
Isabel Campos
Alessandro Cotellucci
Alessandro De Santis
Patrick Fritzsch
Tim Harris
Roman Gruber
Marina Krstić Marinković
Francesca Margari
Sofie Martins
Agostino Patella
Sara Rosso
Nazario Tantalo
Paola Tavella

Joao Pinto
Javad Komijani

Question: do we need to formalize the membership, or introduce formal roles (e.g. member, observer...)? This may become depending on the authorship policy.

Former members

Lucius Bushnaq
Marco Catillo
Madeleine Dale
Martin Hansen
Biagio Lucini
Jens Lücke
Alberto Ramos