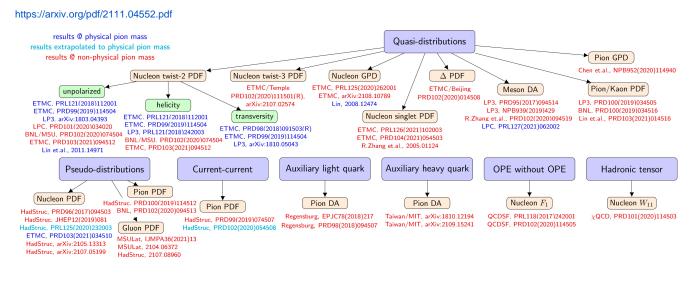
## Lattice QCD updates on TMDs and GPDs

## Presentations

1. 03 Feb 2021 LQCD\_updates\_02\_03\_2020.pdf

2. 28 Apr 2021 LQCD\_updates\_04\_28\_2021.pdf

## A Summary (in 2021)



## References

- 1. Parton distributions and lattice QCD calculations: toward 3D structure [https://arxiv.org/abs/2006.08636] (2020)
- The x-dependence of hadronic parton distributions: A review on the progress of lattice QCD [https://arxiv.org/abs/2010.02445] (2020)
  Complete flavor decomposition of the prior and momentum fraction of the proton using lattice QCD and a proton using lattice and proton us
- 3. Complete flavor decomposition of the spin and momentum fraction of the proton using lattice QCD simulations at physical pion mass [https://arxiv. org/abs/2003.08486] (2020)
- 4. Overview of lattice calculations of the x-dependence of PDFs, GPDs and TMDs [https://arxiv.org/abs/2111.04552] (2021)

I think it's a good idea we try to keep this effort moving along, even if only very slowly. We need to compile all the most relevant LQCD papers. By relevant I mean the deduce or predict something about spin, dynamics, charge distribution, and other advancements in lattice that make important conclusions. Like this one, which seems to indicate that the FNAL g-2 experimental results still live within the Standard Model:

https://arxiv.org/abs/2002.12347