Contribution ID: **258** Type: **Plenary**

Lattice QCD on supercomputers with Chinese CPU

Tuesday 25 October 2022 12:30 (30 minutes)

Lattice QCD is ab initio approach for QCD and plays an indispensable role in understanding the low energy properties of the strong interaction. Last four decades have witnessed the rapid development of the lattice QCD numerical calculation along with the progress of the high performance computing (HPC) techniques. Lattice QCD becomes one of the most resource-consuming HPC fields. China has built several native supercomputers with different hardware architectures,
such as Sunway series, Tianhe series and Sunrising-1 etc., which provide potentially massive HPC resources for lattice QCD studies.
This talk will give a brief introduction to the code developing and the performance of lattice QCD software on these strikingly different computing systems.

Experiment context, if any

References

Significance

Presenter: CHEN, Ying

Session Classification: Plenary