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Proton decay matrix element in lattice QCD on the physical point

We report the recent lattice QCD result of proton decay matrix element, which is QCD contribution to baryon number violating process, with PACS collaboration. We compute 12 relevant matrix elements on the physical point in lattice QCD, and this regards a more reliable value compared with the previous one computed from chiral extrapolation. In this poster, we show the systematic study to evaluate the systematic error and compare our result with other recent work in RBC collaboration.

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