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Towards the Solutions of Reactor and Gallium Anomalies

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The reactor and gallium anomalies of the electron (anti)neutrino disappearance at short baselines have attracted intensive attentions and interests, but have to be resolved yet. In this presentation, I will discuss the status of the reactor and gallium anomalies, both in the framework of 3+1 neutrino oscillation scheme and their possible nuclear-physics interpretations. Future prospect for testing the solution of these anomalies will also be discussed.

This presentation is based on the following publications:

- [1] C. Giunti, Y.F. Li, C.A. Ternes, Z. Xin, *Phys.Lett.B* 829 (2022) 137054, arXiv:2110.06820.
- [2] C. Giunti, Y.F. Li, C.A. Ternes, O. Tyagi, Z. Xin, *JHEP* 10 (2022) 164, arXiv:2209.00916.
- [3] C. Giunti, Y.F. Li, C.A. Ternes, Z. Xin, arXiv:2212.09722.

Submitted on behalf of a Collaboration?

No

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