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## **Lambda-Nucleon and Sigma-Nucleon potentials from space-time correlation function on the lattice**

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The hyperon-nucleon interaction with the strangeness  $S = -1$  region is complicated and difficult to investigate because its flavor sector involves all the irreducible representation except the flavor singlet and has the worst signal-to-noise ratio among the Strangeness regions [1-2]. Some efforts to overcome such difficulties will be discussed.

References:

- [1] H. Nemura et al., AIP Conf.Proc. 2130 (2019) 1, 040005 [arXiv:1810.04046 [hep-lat]].
- [2] H. Nemura, Comput. Phys. Commun. 207, 91 (2016) [arXiv:1510.00903 [hep-lat]].

**Primary author:** NEMURA, Hidekatsu (Osaka University)

**Presenter:** NEMURA, Hidekatsu (Osaka University)

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