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YN interaction with Lattice QCD ASSUMPTA PARRENO, University of Barcelona, NPLQCD COLLABORATION — Lattice QCD simulation of hadronic interactions in the non perturbative regime has been pointed out as a powerful and useful technique to obtain information of relevance in Nuclear Physics, in special in those sectors where experiments are ellusive or difficult to perform. This would be the case of the hyperon-nucleon interaction, crucial for the correct understanding of hypernuclear processes, as well as for a better knowledge of astrophysical phenomena related to the evolution of compact stellar systems. I will discuss recent efforts driven by the *Nuclear Physics Lattice QCD (NPLQCD)* Collaboration to formulate and simulate the interaction between two baryons in the strange sector with Lattice QCD. After outlining the techniques that are used to extract the relevant physics parameters in the low energy regime, I will present the latest results we have produced.

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