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Hyperon physics with antiproton beams [Remote talk]

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The abundant production of hyperons in antiproton-proton annihilations open new avenues in the investigations of strong interactions and fundamental symmetries. In recent years, the BESIII experiment has demonstrated the merits of studying spin polarised and correlated hyperon-antihyperon pairs with several pioneering measurements of hyperon structure and precise tests of CP conservation.

With a beam of stored antiprotons, the PANDA experiment can take hyperon physics to a new level, benefiting from the expected huge samples of hyperon-antihyperon pairs. In this talk, I will discuss the potential of hyperon physics with PANDA in particular but also with antiproton beams in general.

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