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Kaon multiplicity of SIDIS on the deuteron

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We study the kaon multiplicity of semi-inclusive DIS off the deuteron target with the updated parton distribution functions and fragmentation functions and compare our result with the HERMES data and COMPASS data. We demonstrated the tension between the HERMES data and COMPASS data and will provide our opinion about this tension. We will make comment about the extracted values of the strange PDF from HERMES data.

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