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Drell-Yan Physics at COMPASS and AMBER

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In 2015 and 2018 the COMPASS experiment at the M2 beamline of the CERN SPS performed measurements of the Drell-Yan process, using a 190 GeV/c negative pion beam impinging on aluminium and tungsten targets and on transversely polarized ammonia target. The goal was investigating the nucleon and the pion structure. AMBER, the newly approved fixed target facility, successor of COMPASS in the same EHN2 experimental hall, will continue this investigation, aiming at improving the knowledge of the mesons structure.

In this talk I will give an overview of the COMPASS results from the Drell-Yan and J/psi production channels and I will discuss the prospects of the future pion and kaon-induced Drell-Yan and J/Psi di-muon production measurements at AMBER.

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