

## Neutron spin structure studies at EIC

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The study of the nucleon (spin) structure in terms of its basic degrees of freedom is a central pillar of the EIC initiative; the availability of deuteron and  $^3\text{He}$  polarized beams will offer unprecedented opportunities to do measurements on the neutron comparable to those of the proton; the combination of these data will deepen our understanding of many aspects of the nucleon spin physics: from a more precise test of the Bjorken sum rule to a finer picture of flavor structure of the nucleon sea, as well as a precise determination of different spin and transverse momentum dependent distribution functions, at leading and higher twists. Moreover, the almost close kinematics, large acceptance detectors typical of a collider, will potentially offer new measurement perspectives beyond the asymmetries.

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