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The Quest for the Origin of the Proton's Sea

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The proton is a composite particle in which the binding force is responsible for the majority of its mass. To understand this structure, the distributions and origins of the quark-antiquark pairs produced by the strong force must be measured. The SeaQuest collaboration is using the Drell-Yan process to elucidate antiquark distributions in the proton and to study the modification of these distributions when the proton is held within a nucleus. Preliminary results based on a fraction of the anticipated final data set will be presented.

Primary author: REIMER, Paul E (Argonne National Laboratory)

Presenter: REIMER, Paul E (Argonne National Laboratory)

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