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Study of Current and Target Fragmentation using Λ Electroproduction off Nuclei[1] TAYA CHETRY, Mississippi State University, CLAS COLLABORATION — The hadronization or fragmentation, where a struck quark transforms into color-neutral hadrons, is an effective tool to probe the confinement dynamics as well as the characteristic time-scales involved in the process. These time-scales elucidate our understanding of the color-neutralization and the subsequent non-perturbative formation of the observed hadrons. This talk will report the first-ever analysis of the semi-inclusive deep inelastic scattering of Lambda hyperons in the current and target fragmentation regions using the accumulated Jefferson Lab CLAS6 data-sets with deuterium, carbon, iron, and lead targets. Results on the multiplicity ratios and the transverse momentum broadening will be presented along with a highlight of the upcoming CLAS12 color propagation measurements.

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