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Exploring Gluon GPDs Through ϕ Meson Production with the SoLID Detector at Jefferson Lab MICHAEL PAOLONE, New Mexico State University, JEFFERSON LAB SOLID COLLABORATION — Through deeply virtual meson production (DVMP) in the valence region, one can exploit the quark disparity between target nucleons or nuclei (comprised almost entirely of up-down quarks) and produced vector-meson quark-antiquark pairs (with flavor strange or heavier) to access the gluon generalized parton distributions (GPDs) of the target. The future SoLID- J/ψ experiment could be the perfect stage to measure ϕ DVMP in the valence region. This talk will discuss possibilities to measure strangeonium production and which decay-channels, targets, and kinematic regions are accessible with the SoLID detector.

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