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The SoLID program in JLab

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The SoLID (Solenoidal Large Intensity Detector) program is proposed at JLab to be capable of running experiments with both high luminosity ($10^{37} - 10^{39} \text{ cm}^{-2} \text{ s}^{-1}$) and large acceptance, exploiting the full potential of the 12 GeV energy upgrade at JLab. The spectrometer is designed with a capability of reconfiguration to optimize for either Parity-Violating Deep Inelastic Scattering (PVDIS) or Semi-Inclusive Deep Inelastic Scattering (SIDIS) /threshold production of the J/ψ meson. In this talk we will present the rich physics programs followed by an overview of the SoLID instrumentation and the current status.

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