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Design Studies for an EIC Detector Based on the sPHENIX Solenoid

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In 2018, an EIC Detector Design Study Group was formed to start considering in detail how an EIC detector could be built around the sPHENIX solenoid, formerly used by the BaBar experiment. A series of studies examining the design and physics performance for select options of calorimetry, tracking, and particle identification covering -4 to $+4$ in pseudorapidity has already been performed, and further studies are ongoing. The design ideas that have been explored so far will be presented, and the many opportunities for further contributions will be described.

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