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Quark and gluon Sivers functions in dijets at the EIC

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We explore the quark and the gluon Sivers functions in dijet production at the EIC. Our analysis includes a comprehensive investigation of the $\sin(\phi_S - \phi_r)$ modulated cross-sections for both quark and gluon channels. Furthermore, we state the possibility of re-defining the resummation method, altering the treatment of large logarithmic corrections. We also test different models for the gluon Sivers function, offering insights relevant to future experimental studies.

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