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Energy-energy correlation at NNLL+NNLO

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In this talk we consider the back-to-back region of the energy-energy correlation in e^+e^- collisions and present the matching of the next-to-next-to-leading logarithmic (NNLL) approximation with the recently computed fixed next-to-next-to-leading order (NNLO) corrections. We perform the matching in the log R scheme. We compare our results to precise LEP and SLC data, and find that the inclusion of the NNLO corrections has a sizeable impact on the extracted value of $\alpha_S(M_Z)$.

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