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Linear colliders and the Furry Picture: How to deal with strong external fields.

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Future linear colliders like ILC and CLIC could be powerful machines for the discovery and the precision study of new physics Beyond the Standard Model. Due to the intense beams (high luminosity, high energy), strong fields may occur in the beam interaction region where the physical processes take place. In the context of precision HEP, the presence of these strong fields may yield sensitive corrections to the observed electron-positron processes. We are studying this intense external field corrections through the Furry picture of quantum states in order to understand their significance, also in the light of BSM searches.

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