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Charge exchange reaction at high energies

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Charge exchange reactions at high energies are examined. Such reactions can in principle be tagged in pp-collisions by their topology of asymmetric forward charges of $Z_{\text{tot}}=0$ and $Z_{\text{tot}}=2$.

The low energy data of the reaction $pp \rightarrow n \Delta^{++}$ are reviewed, and extrapolated to LHC and FCC energies. The charge exchange reaction induced by W^{+}, W^{-} -exchange is presented. The prospects of identifying charge exchange reactions at the LHC and FCC colliders are discussed.

Primary author: Dr SCHICKER, Rainer (Phys. Inst., University Heidelberg)

Presenter: Dr SCHICKER, Rainer (Phys. Inst., University Heidelberg)

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