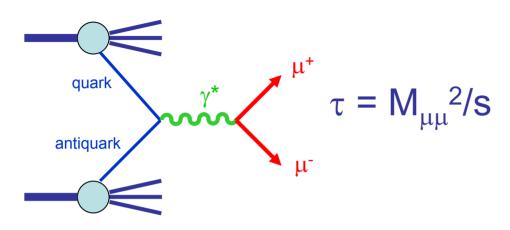
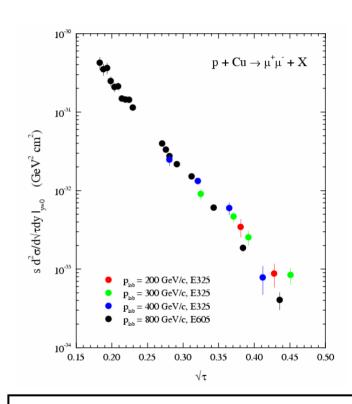
early history: the Drell-Yan process



$$egin{array}{lcl} rac{d^2\sigma}{dM^2} & = & rac{4\pilpha^2}{3M^4} \int_0^1 dx_1 dx_2 \delta(x_1x_2- au) \sum_a e_a^2 f_a(x_1) f_{ar{a}}(x_2) \\ & = & rac{4\pilpha^2}{3M^4} \; \mathcal{F}(au) & ext{(scaling)} \end{array}$$

"The full range of processes of the type $A + B \rightarrow \mu^+\mu^- + X$ with incident p,π,K,γ etc affords the interesting possibility of comparing their parton and antiparton structures" (Drell and Yan, 1970)



(nowadays) ... and to study the scattering of quarks and gluons, and how such scattering creates **new particles**



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