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Inclusive Photoproduction of ρ^0 , K^{*0} and ϕ Mesons at HERA

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Inclusive non-diffractive photoproduction of $\rho(770)^0$, $K^*(892)^0$ and $\phi(1020)$ mesons is investigated with the H1 detector in ep collisions at HERA. The corresponding average gamma p centre-of-mass energy is 210 GeV. The mesons are measured in the transverse momentum range $0.5 < p_T < 7$ GeV and the rapidity range $|y_{lab}| < 1$. Differential cross sections are presented as a function of transverse momentum and rapidity, and are compared to the predictions of hadroproduction models.

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