

## $J/\Psi$ and $\phi$ Electro-production in Pomeron Exchange Model

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(Received: 2006-9-4; Revised: )

**Abstract:** Based on Pomeron exchange model,  $J/\Psi$  and  $\phi$  production in electro-proton interaction are investigated with both linear and non-linear Pomeron trajectory. The experimental differential cross sections measured as a function of the kinematic variable  $Q^2$ ,  $W$  and  $t$  are reproduced successfully in the model. Our conclusions are that the Pomeron exchange model is a successful description of  $J/\Psi$  and  $\phi$  electro-productions on the proton, and that the linear trajectory is a good approximation to non-linearity of the Pomeron trajectory.

PACS: 12.40.Nn, 13.60.Le, 14.40.Gx

Key words: vector meson electro-production, diffractive process, Pomeron exchange model

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