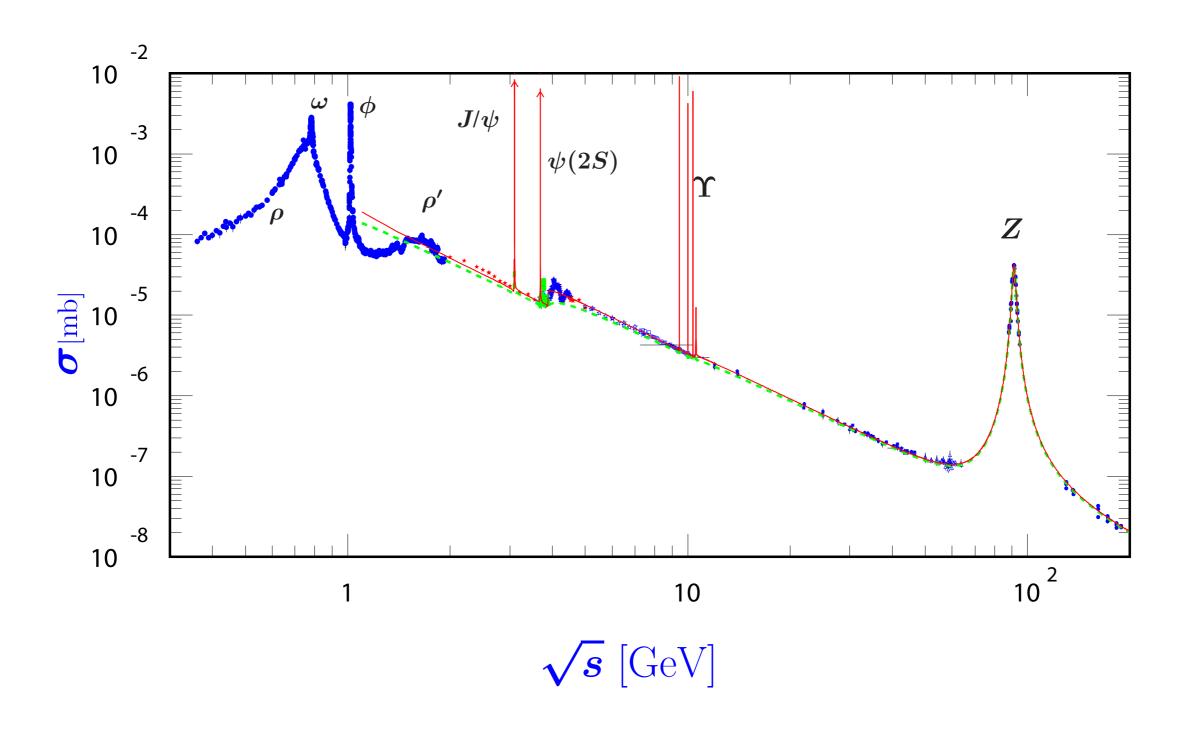
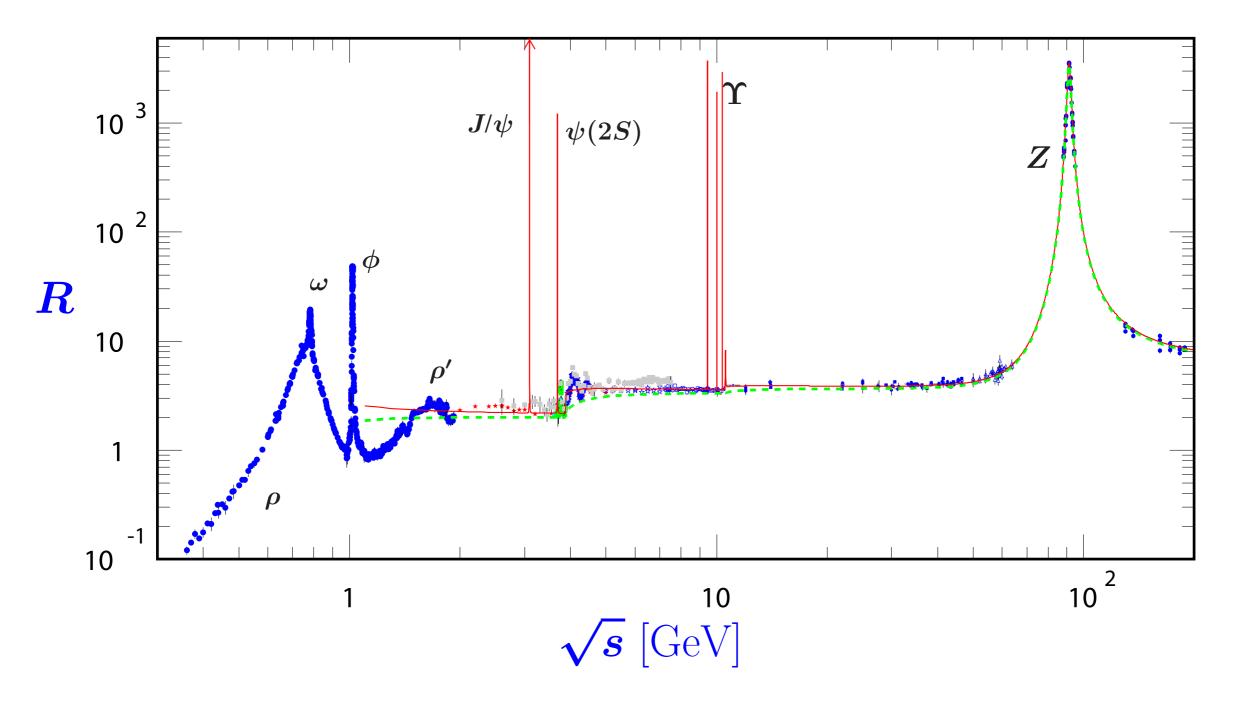
e⁺e[−] → hadrons: cross section

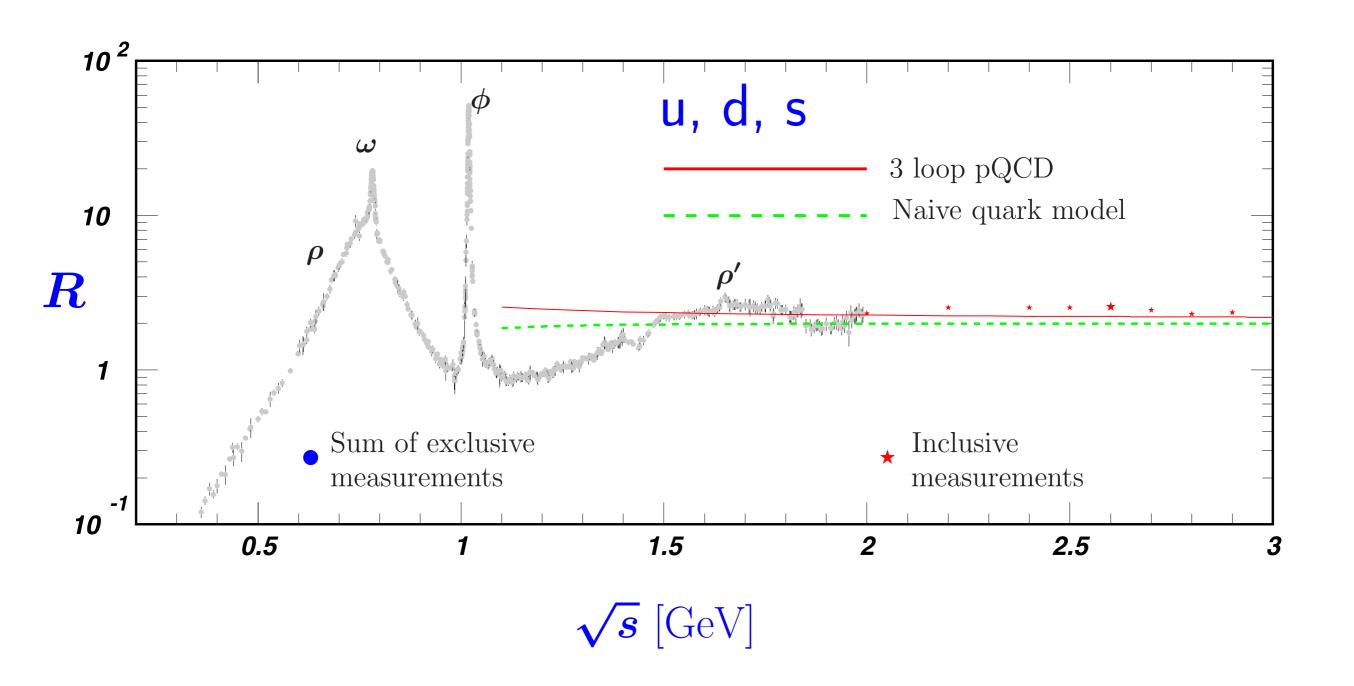


R-ratio

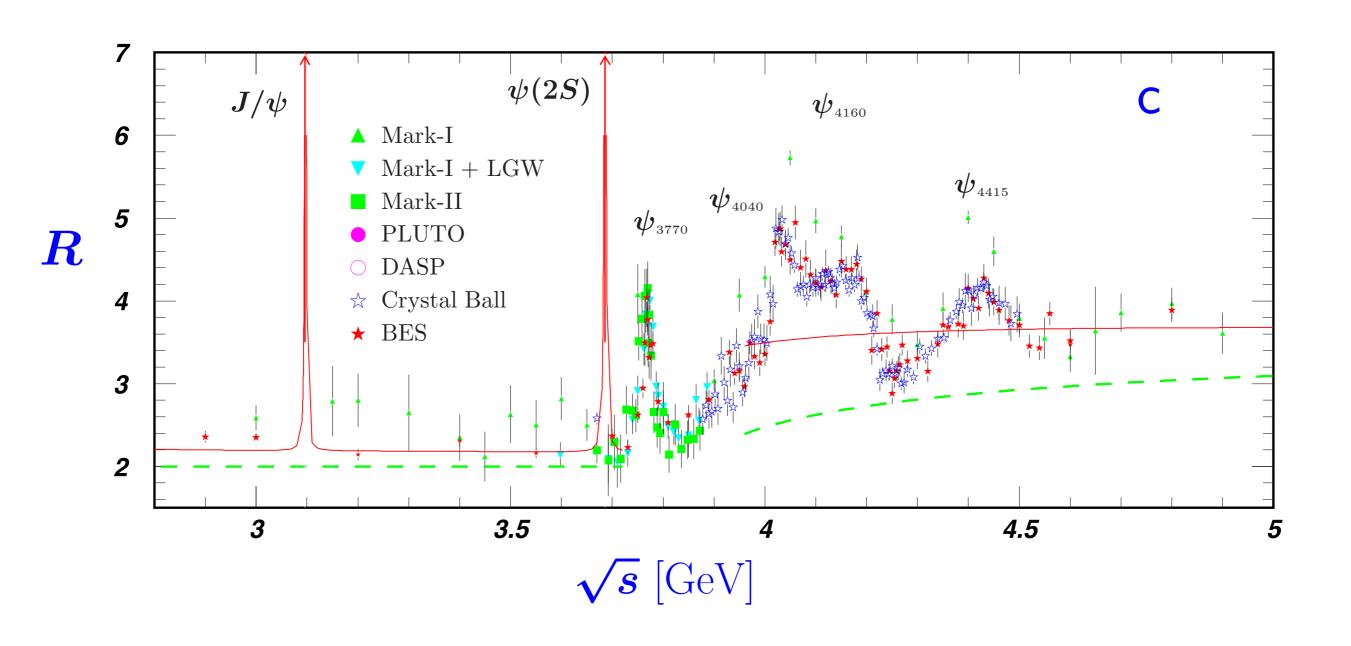


The green dashed line is our LO prediction after inclusion of quark masses and Z-exchange. Red line includes NNLO QCD corrections.

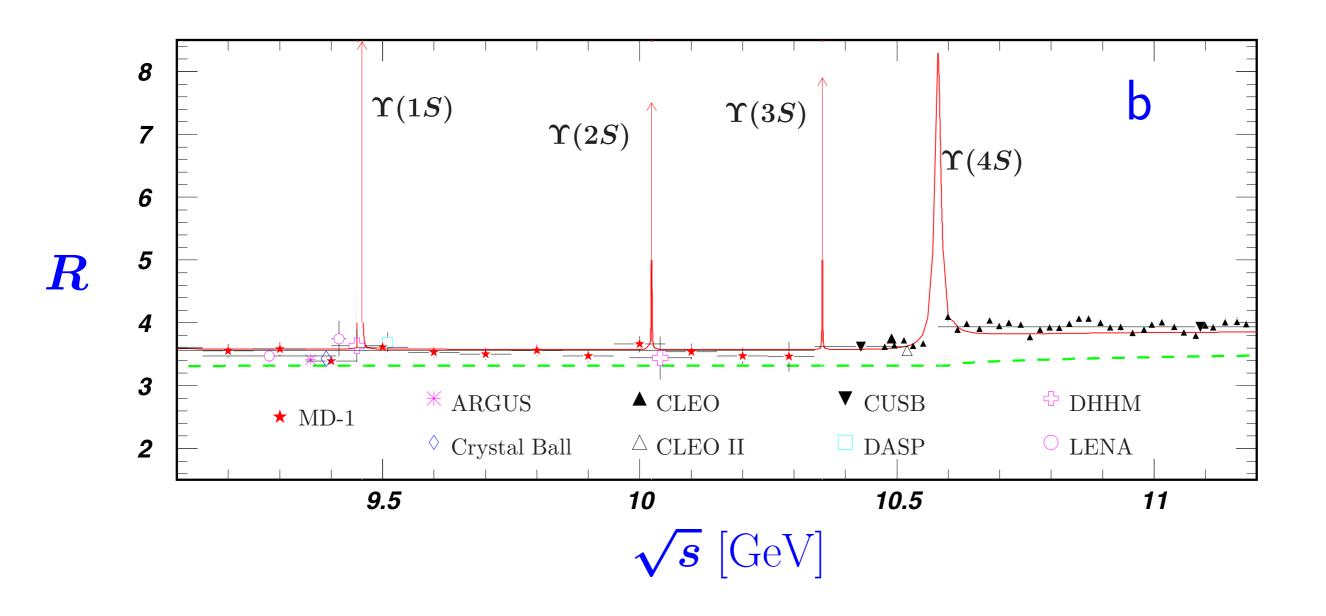
Below charm threshold



charm region



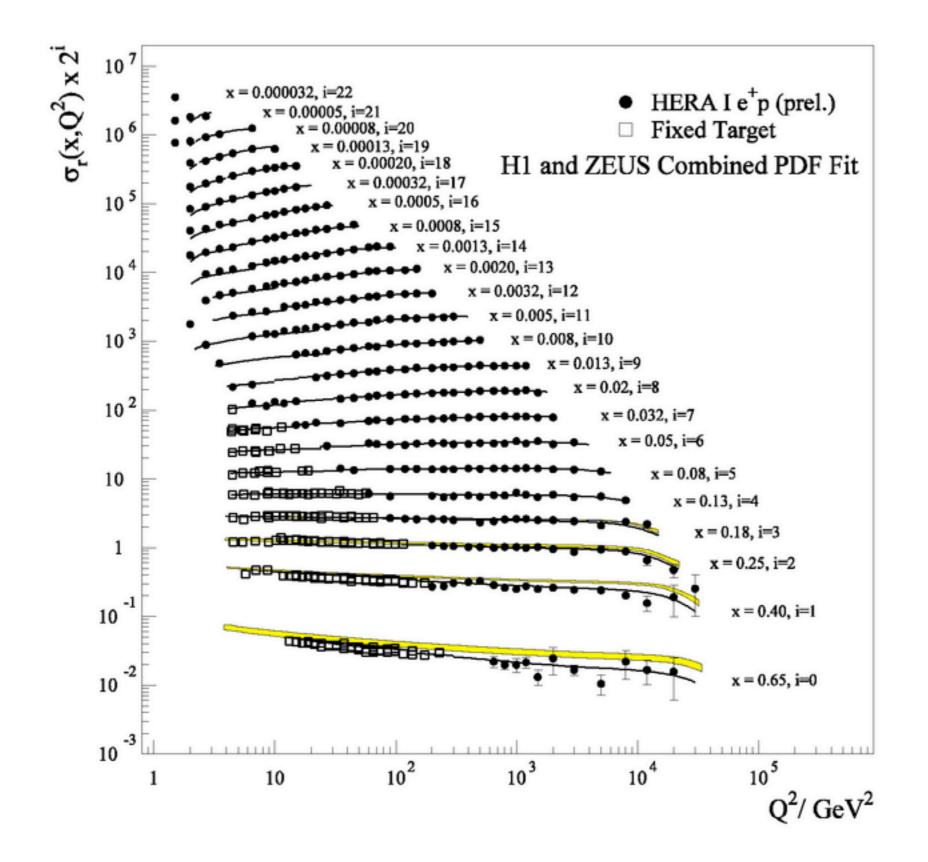
b-quark threshold region

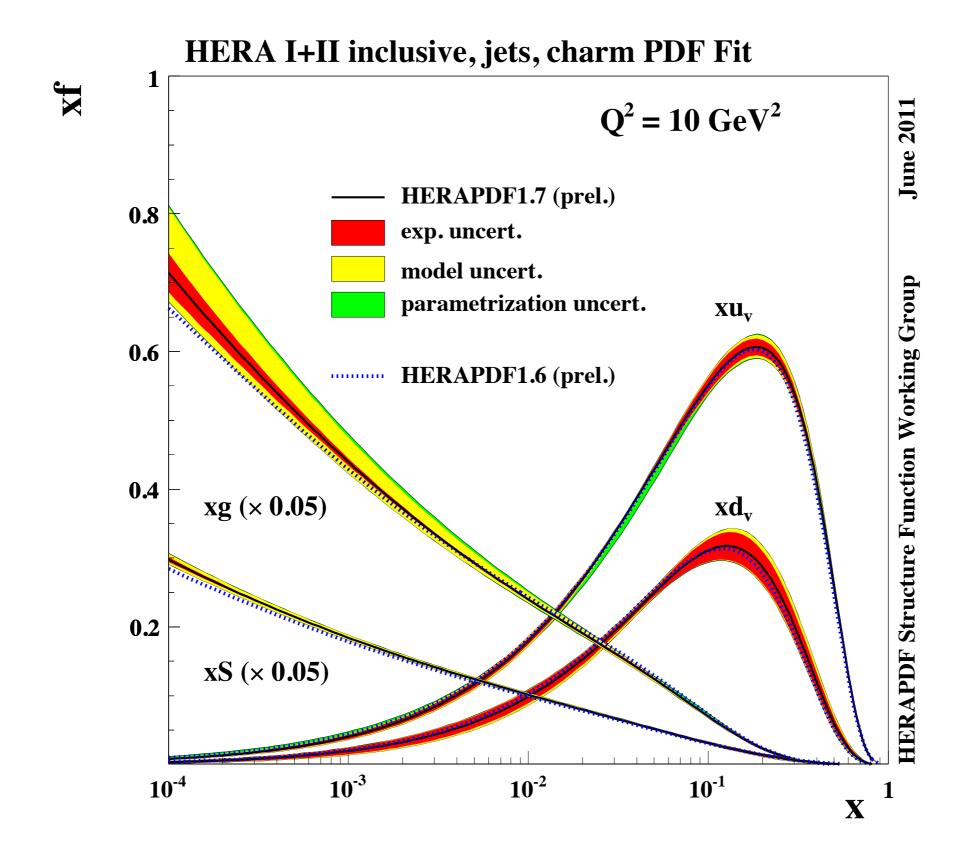


HERA collider. H1 and ZEUS experiments.



from Denys Lontkovskyi talk, Moriond QCD 2012





The plot shows $x \cdot f_i(x)$