4. miniworkshop difrakce a ultraperiferálních srážek

Azimuthal asymmetries in diffractive vector meson photoproduction

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Pion pairs in the mass range of coherent ophotoproduction



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Clear asymmetry





Continuum pion pair and p production have not been disentangled

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No results abvailable yet for J/ψ (Different size of effect due to different spins of pions and leptons in the decay products)





Asymmetry at mid-rapidity

Theory predictions

Theory predictions



the impact parameter

the gluon distribution (not shown)

2<cos(2φ)>

Asymmetry at mid-rapidity





Some 50k coherent ρ available (analysis to be performed)

For the J/ ψ case see next talk

Look for this behaviour in current data: