Azimuthal correlations in photoproduction and deep inelastic ep scattering at HERA and indication of multiparton interactions

Additional material

ZEUS Collaboration

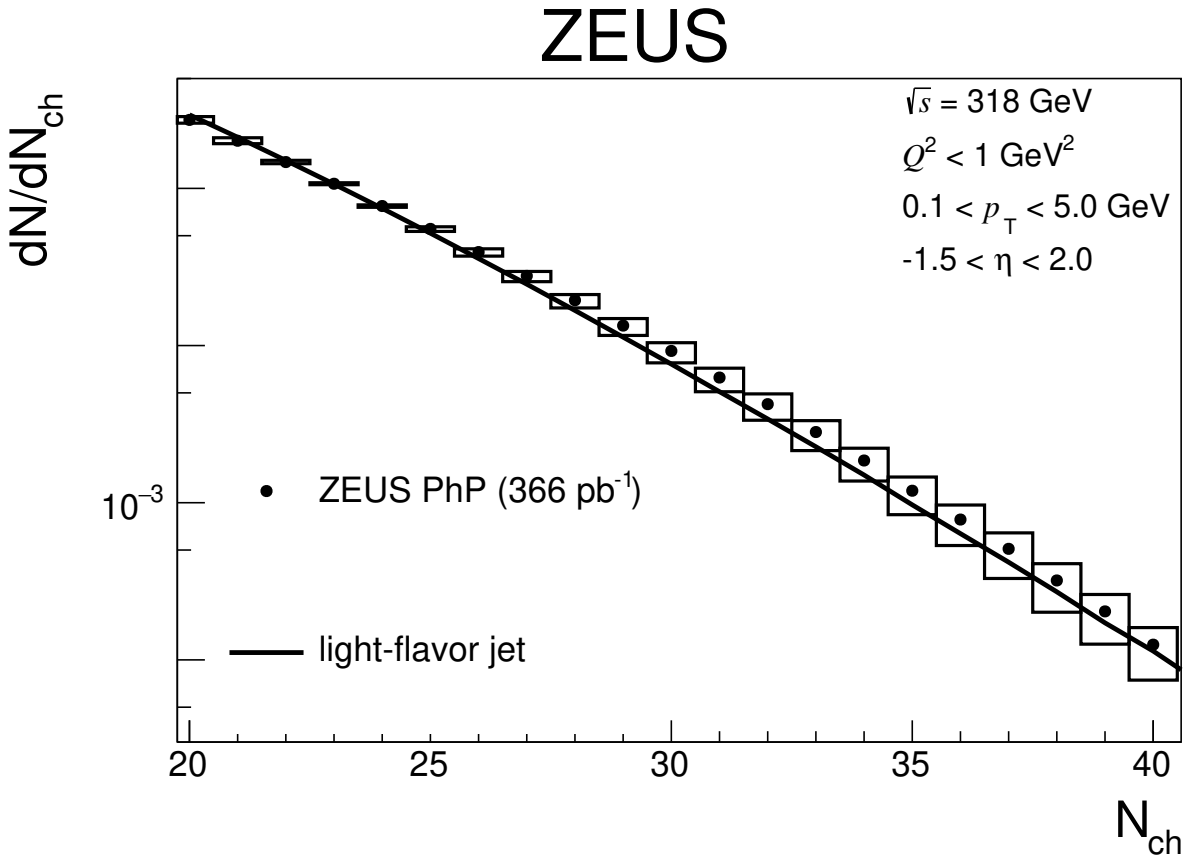

Figure 1: Charged particle multiplicity distribution $dN/dN_{\rm ch}$ compared to ZEUS Monte Carlo. The integral of the distributions in the range shown are normalised to unity. The statistical uncertainties are shown as vertical lines although they are typically smaller than the marker size. Systematic uncertainties are shown as boxes.

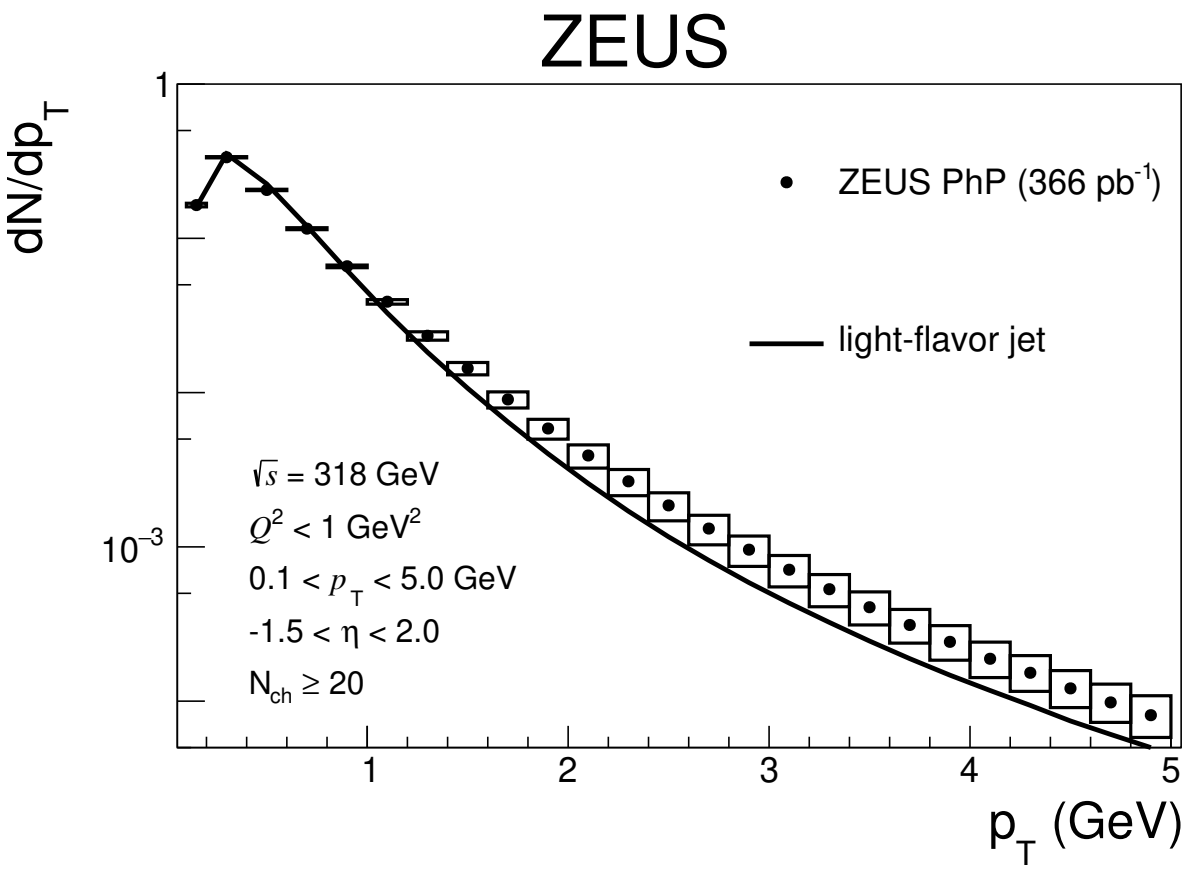

Figure 2: Charged particle transverse momentum distribution dN/dp_T compared to ZEUS Monte Carlo. The other details are as in figure 1.

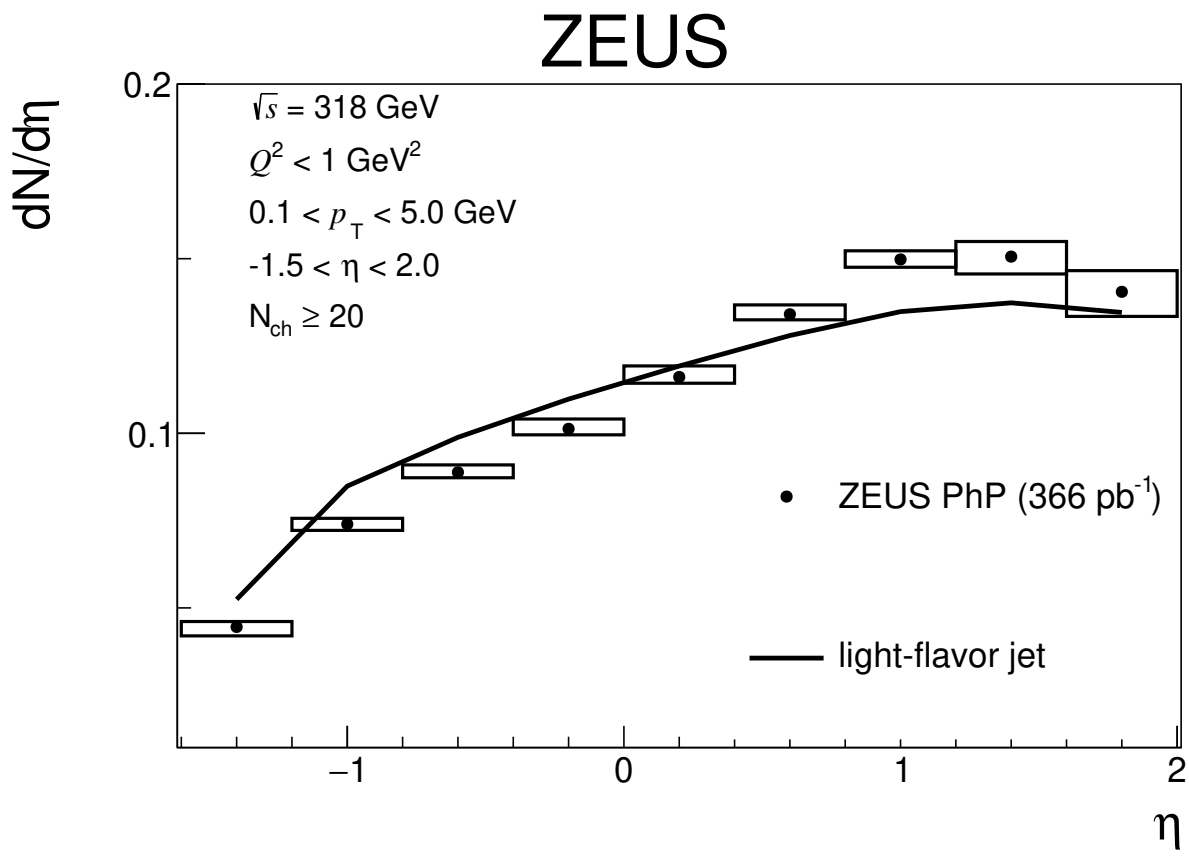

Figure 3: Charged particle pseudorapidity distribution $dN/d\eta$ compared to ZEUS Monte Carlo. The other details are as in figure 1.

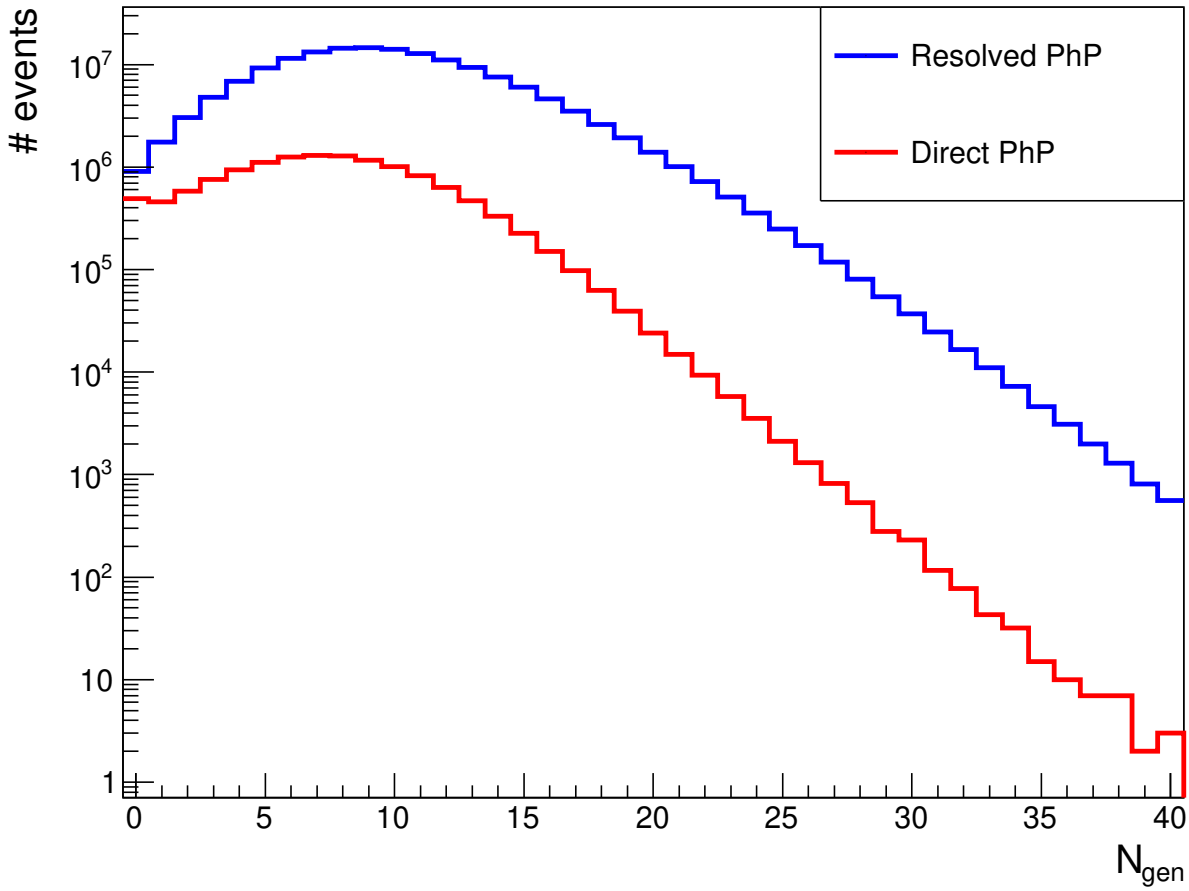

Figure 4: Generator-level distributions of charged particles for the resolved (blue) and direct (red) photoproduction components of ZEUS Monte Carlo.

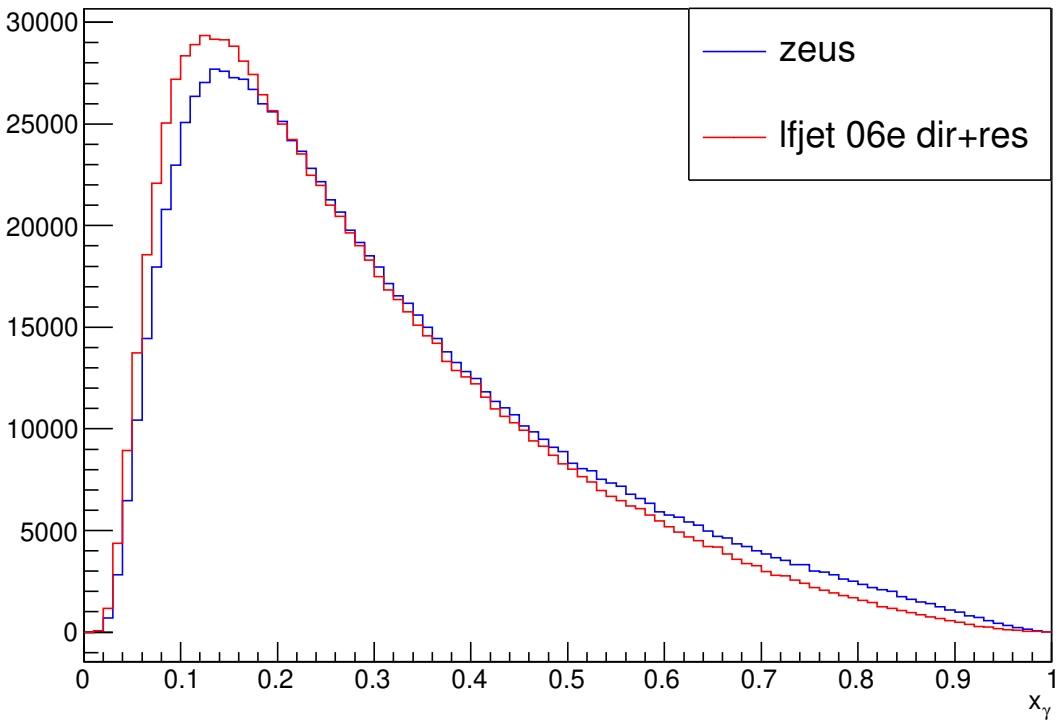

Figure 5: x_γ distribution for events with number of charge particles greater than 20 compared to ZEUS Monte Carlo.

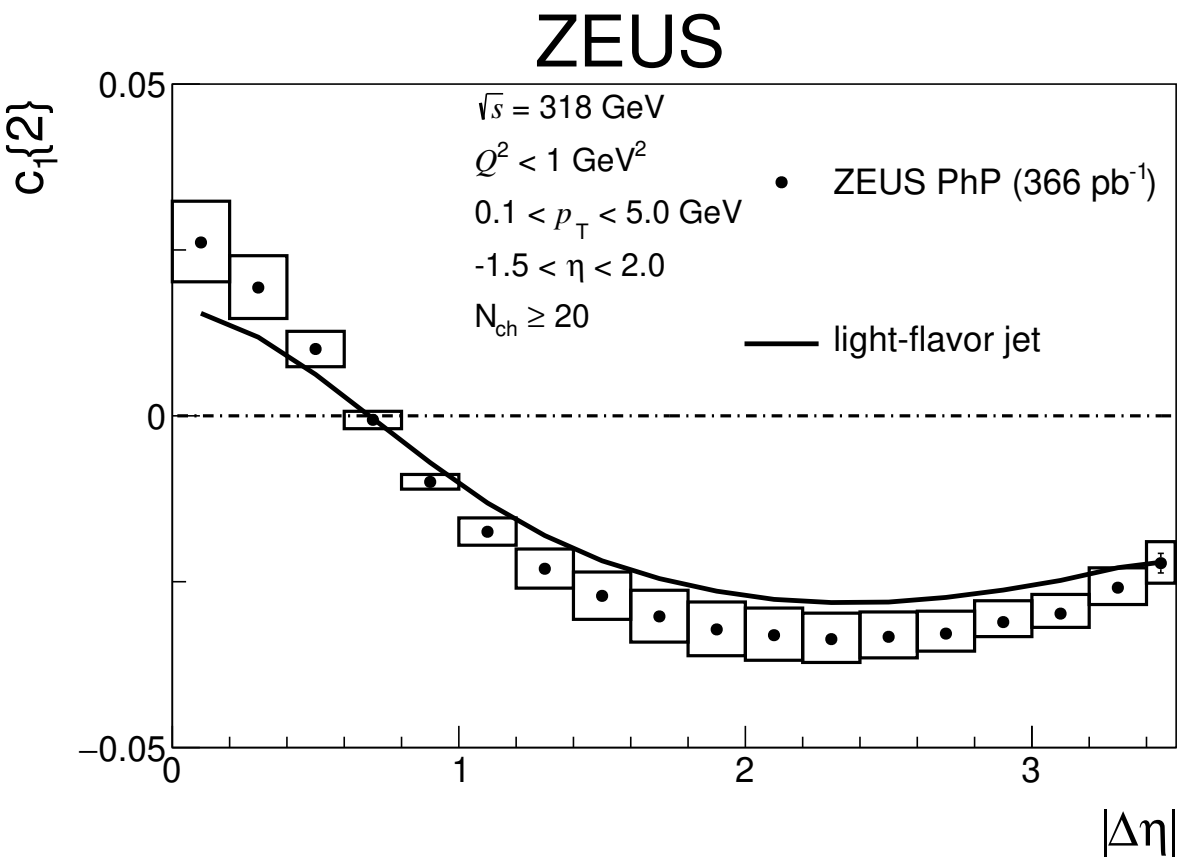

Figure 6: Two-particle azimuthal correlations $c_1\{2\}$ versus $|\Delta\eta|$ compared to ZEUS Monte Carlo. The other details are as in figure 1.

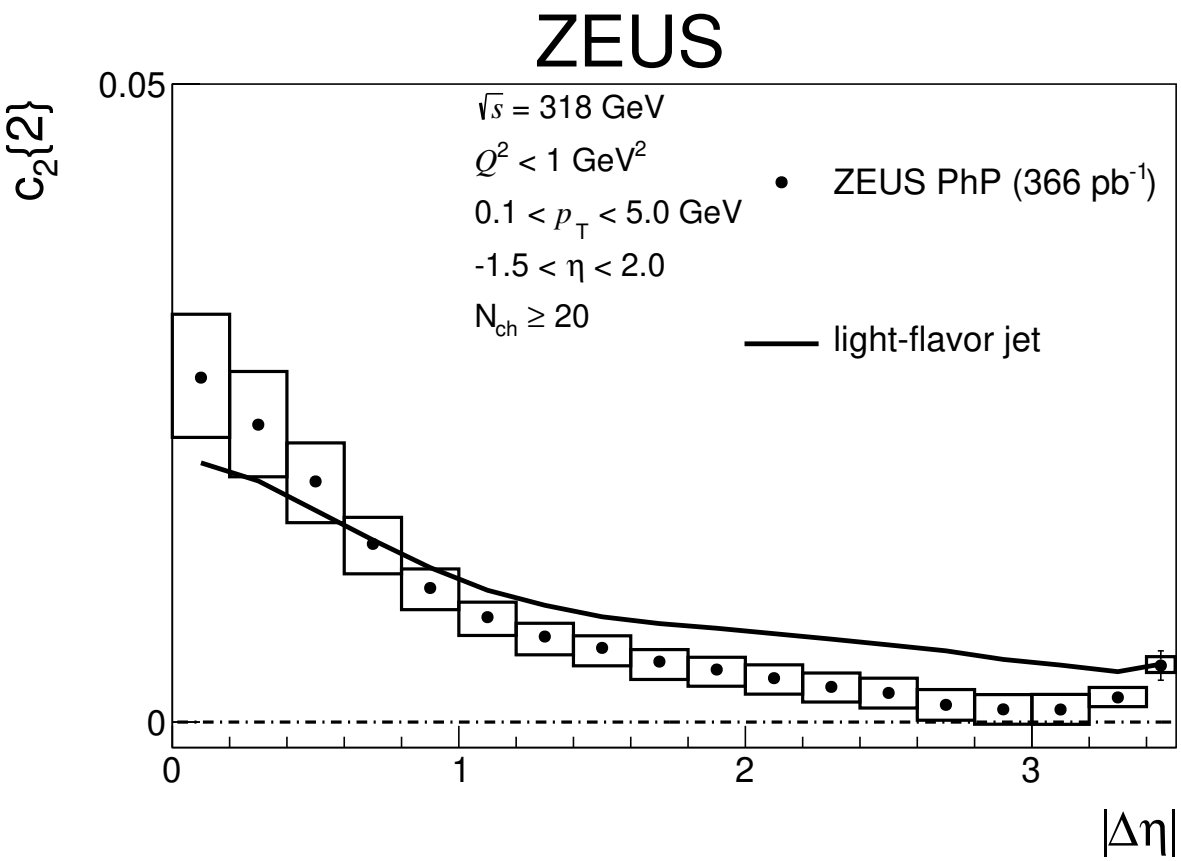

Figure 7: Two-particle azimuthal correlations $c_2\{2\}$ versus $|\Delta\eta|$ compared to ZEUS Monte Carlo. The other details are as in figure 1.

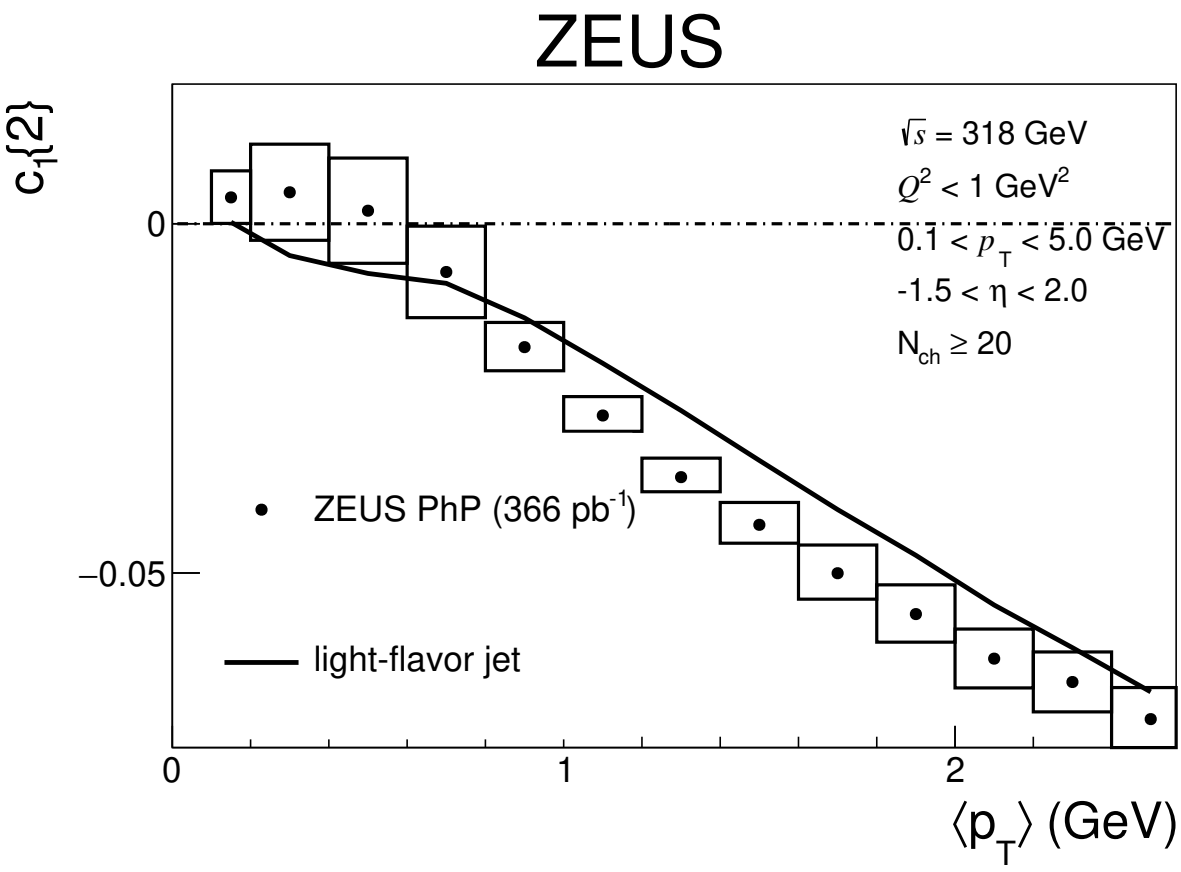

Figure 8: Two-particle azimuthal correlations $c_1\{2\}$ versus $\langle p_T \rangle$ compared to ZEUS Monte Carlo. The other details are as in figure 1.

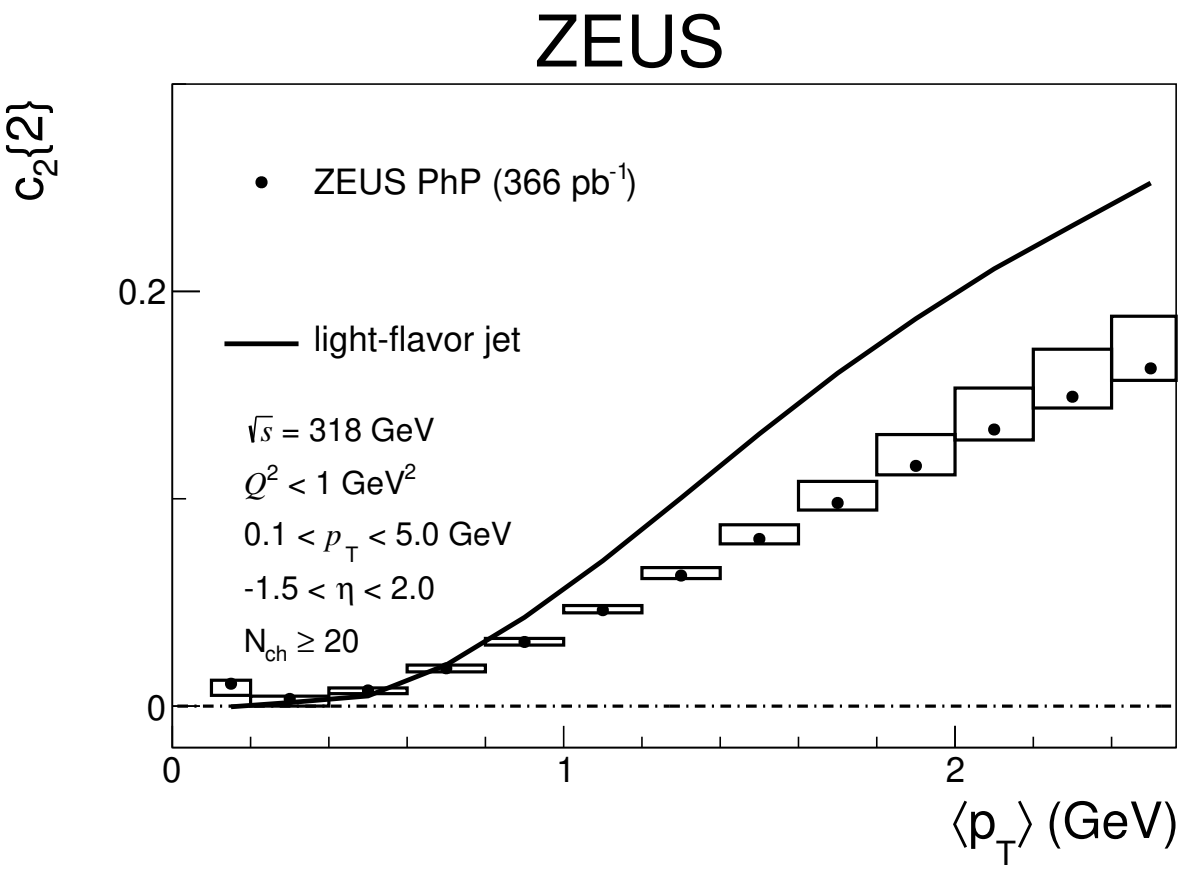

Figure 9: Two-particle azimuthal correlations $c_2\{2\}$ versus $\langle p_T \rangle$ compared to ZEUS Monte Carlo. The other details are as in figure 1.

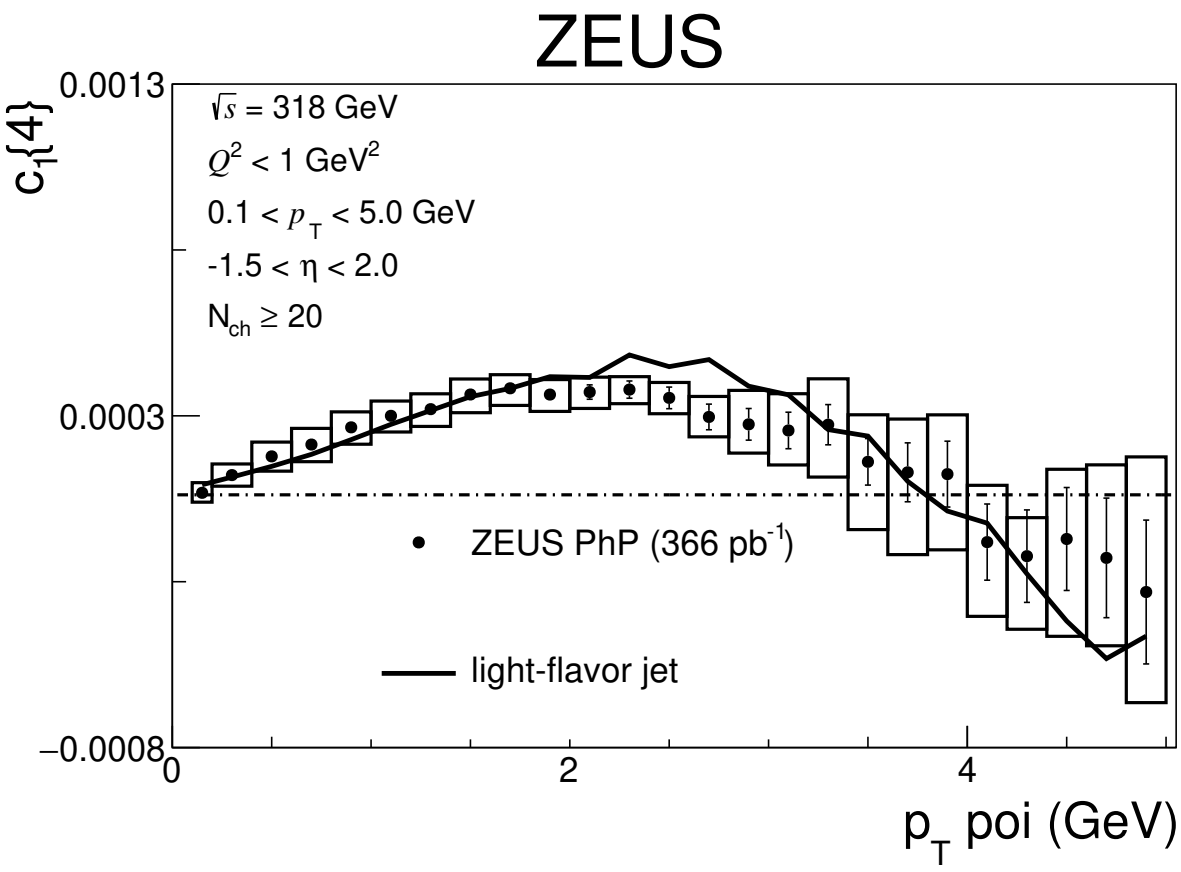

Figure 10: Four-particle azimuthal correlations $c_1\{4\}$ versus p_T poi compared to ZEUS Monte Carlo. The other details are as in figure 1.

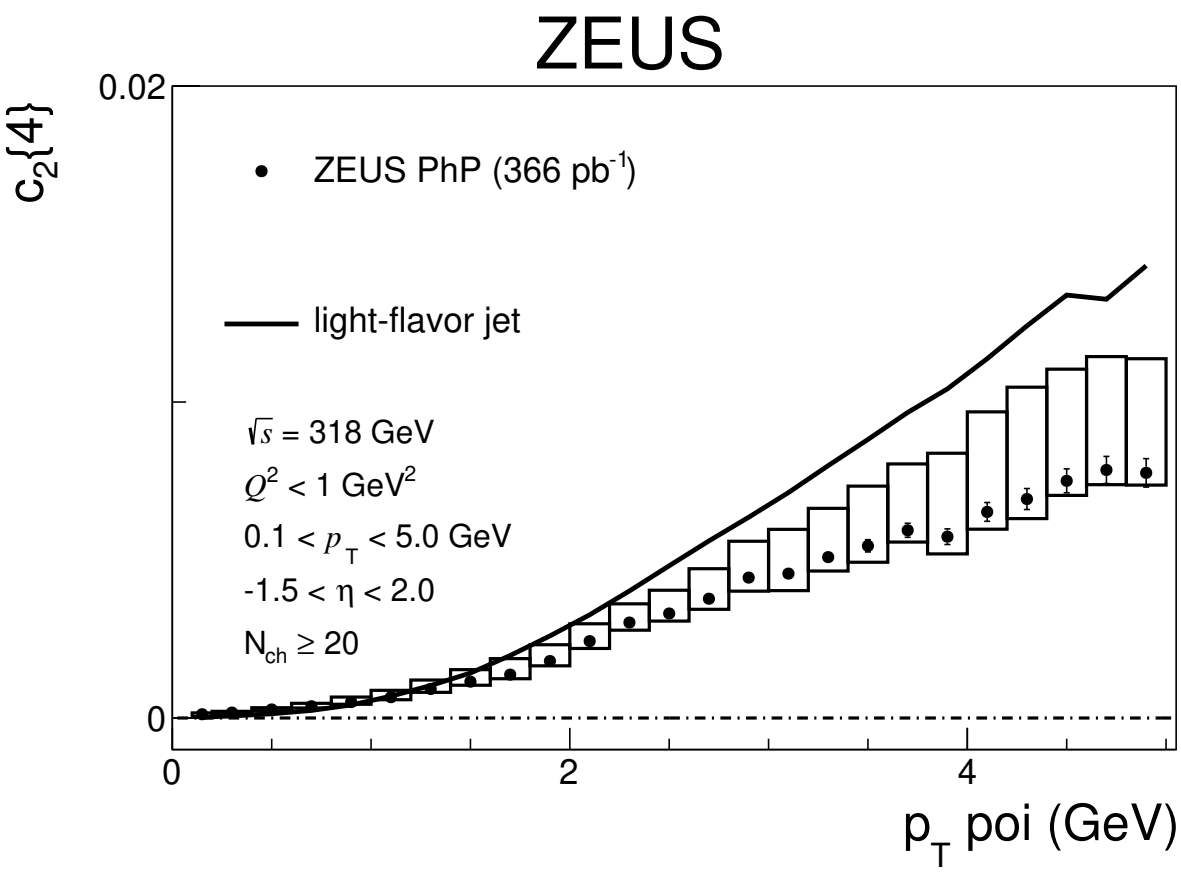

Figure 11: Four-particle azimuthal correlations $c_2\{4\}$ versus p_{T} poi compared to ZEUS Monte Carlo. The other details are as in figure 1.