

Comparison of Diamond-Like Carbon (BD) and Carbon Loaded Kapton (CLK)

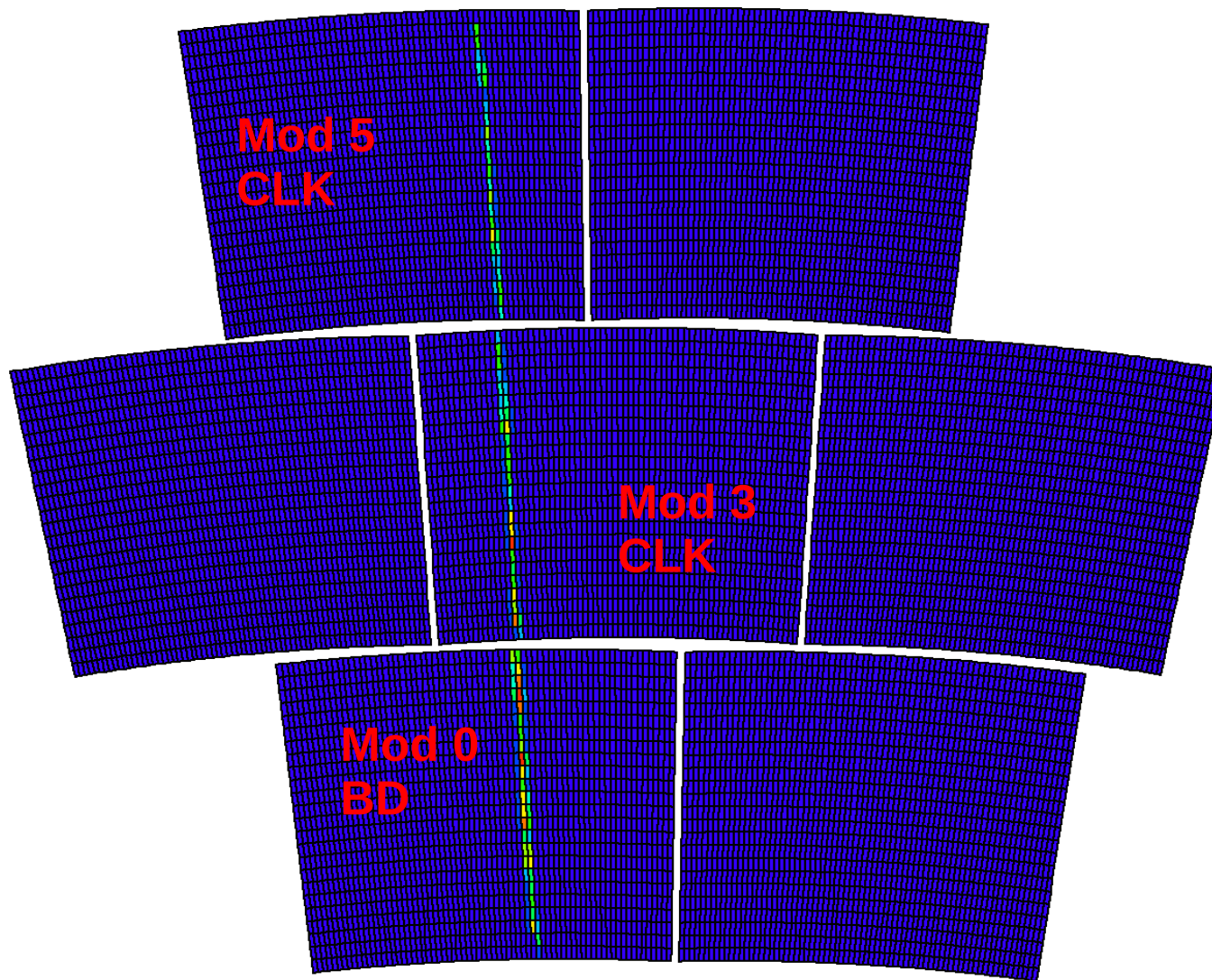
Deb Sankar Bhattacharya

PhD student SINP, Kolkata & CEA Saclay

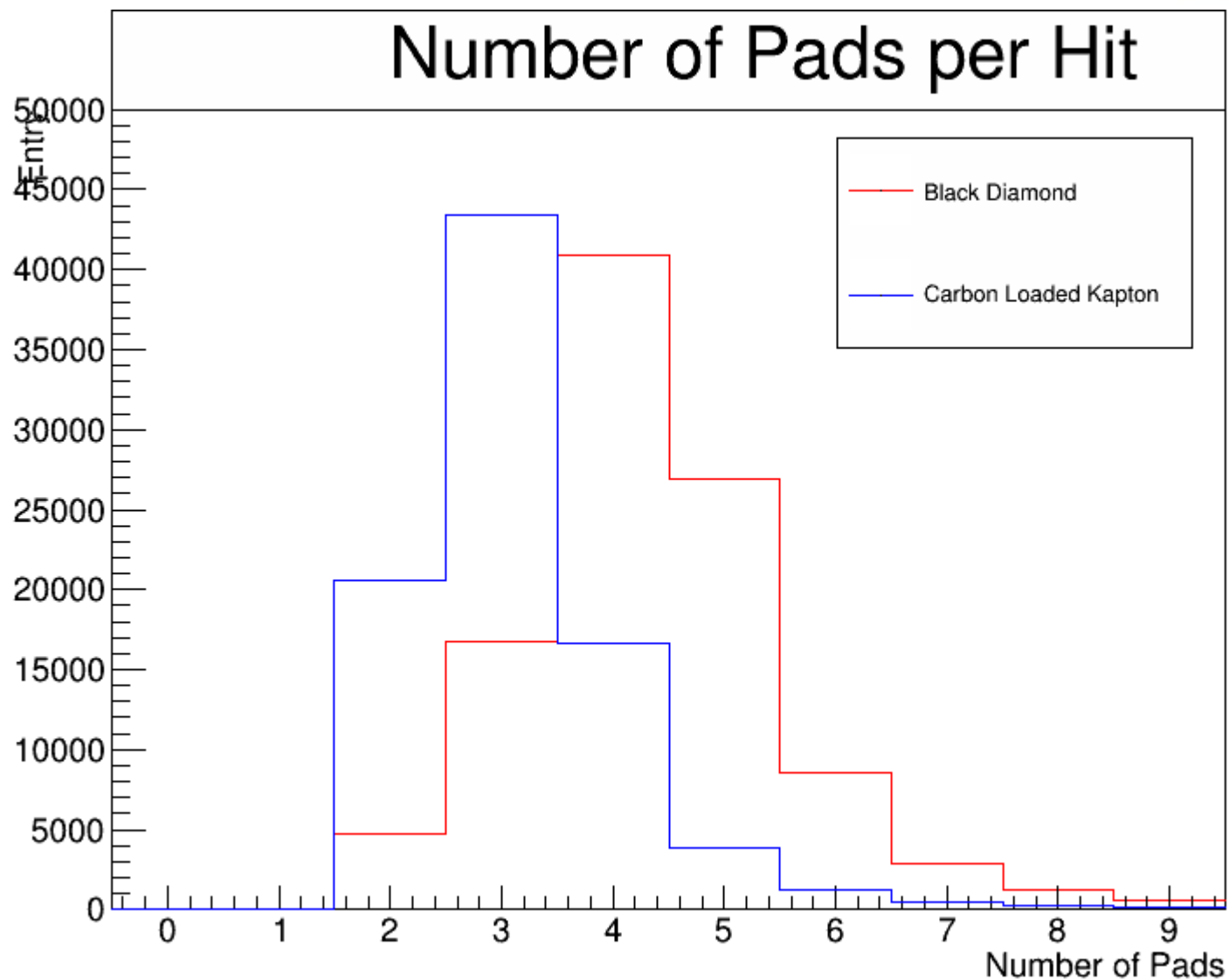
WP meeting
July 2015, CEA, Saclay



2015 Beamtest, 01-14 March 2015



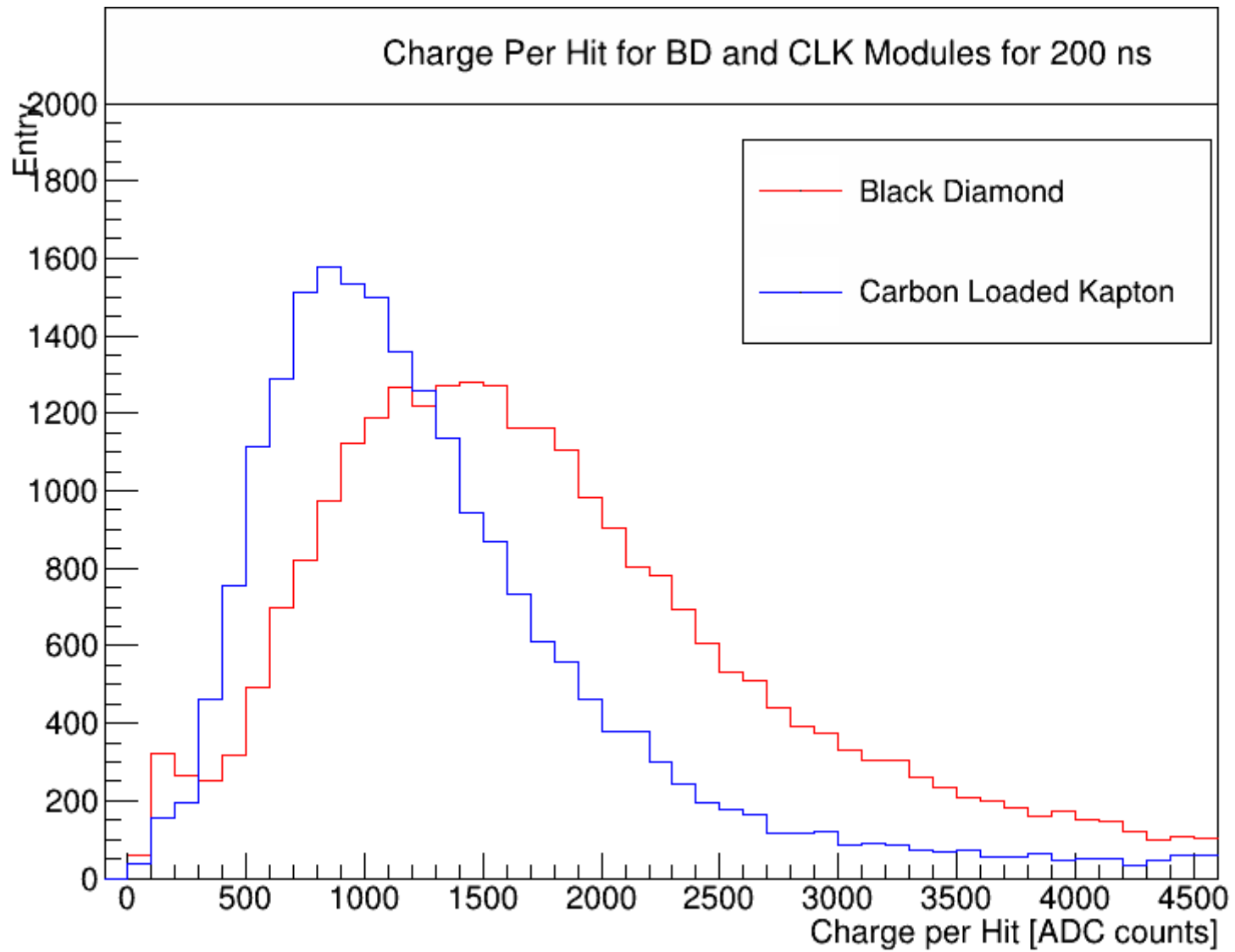
$B = 1 \text{ T}$, High Field



CLK -> 3.13

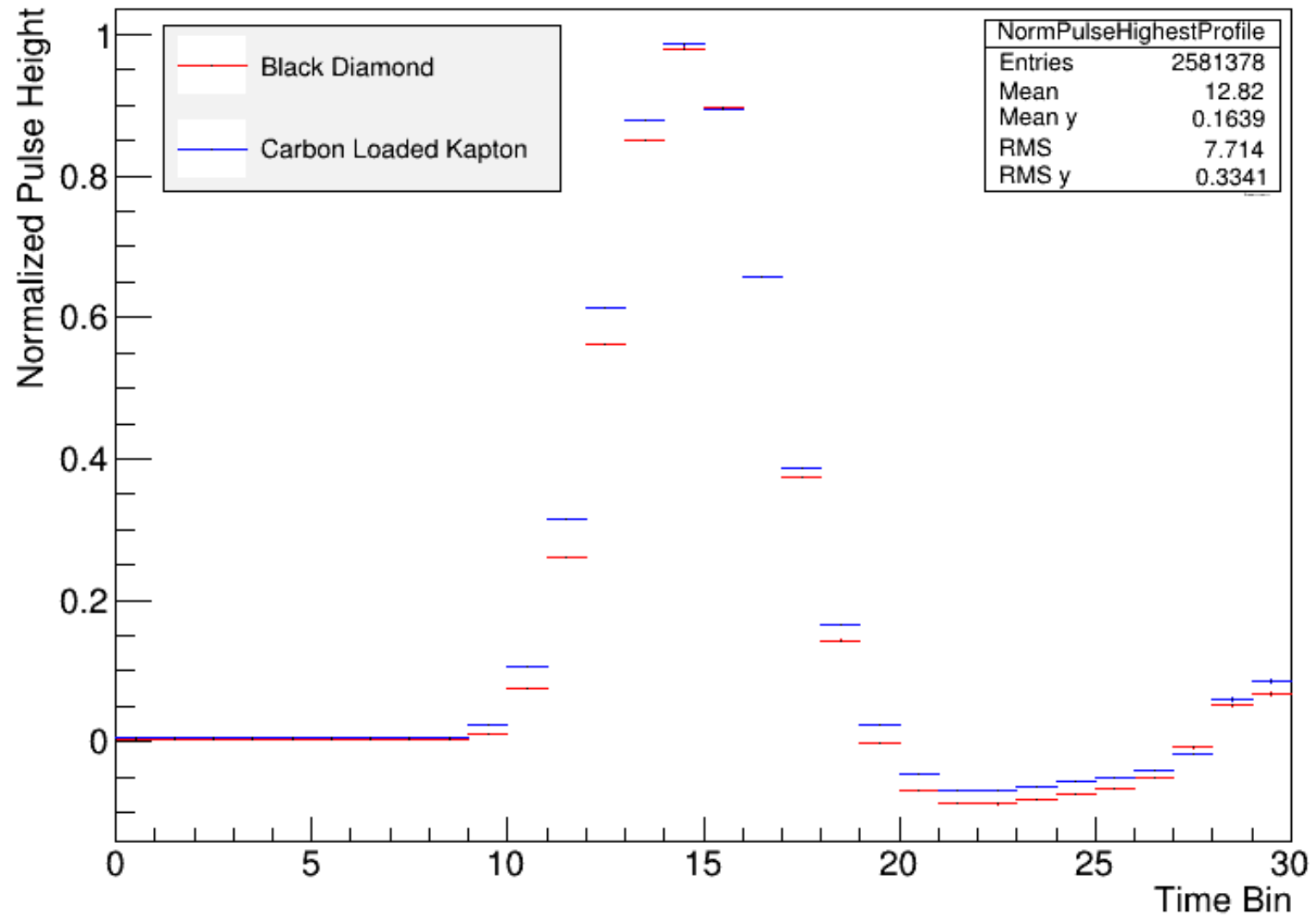
BD -> 4.33

Charge dispersion is higher in 'BD' => Surface resistivity is smaller in 'BD'

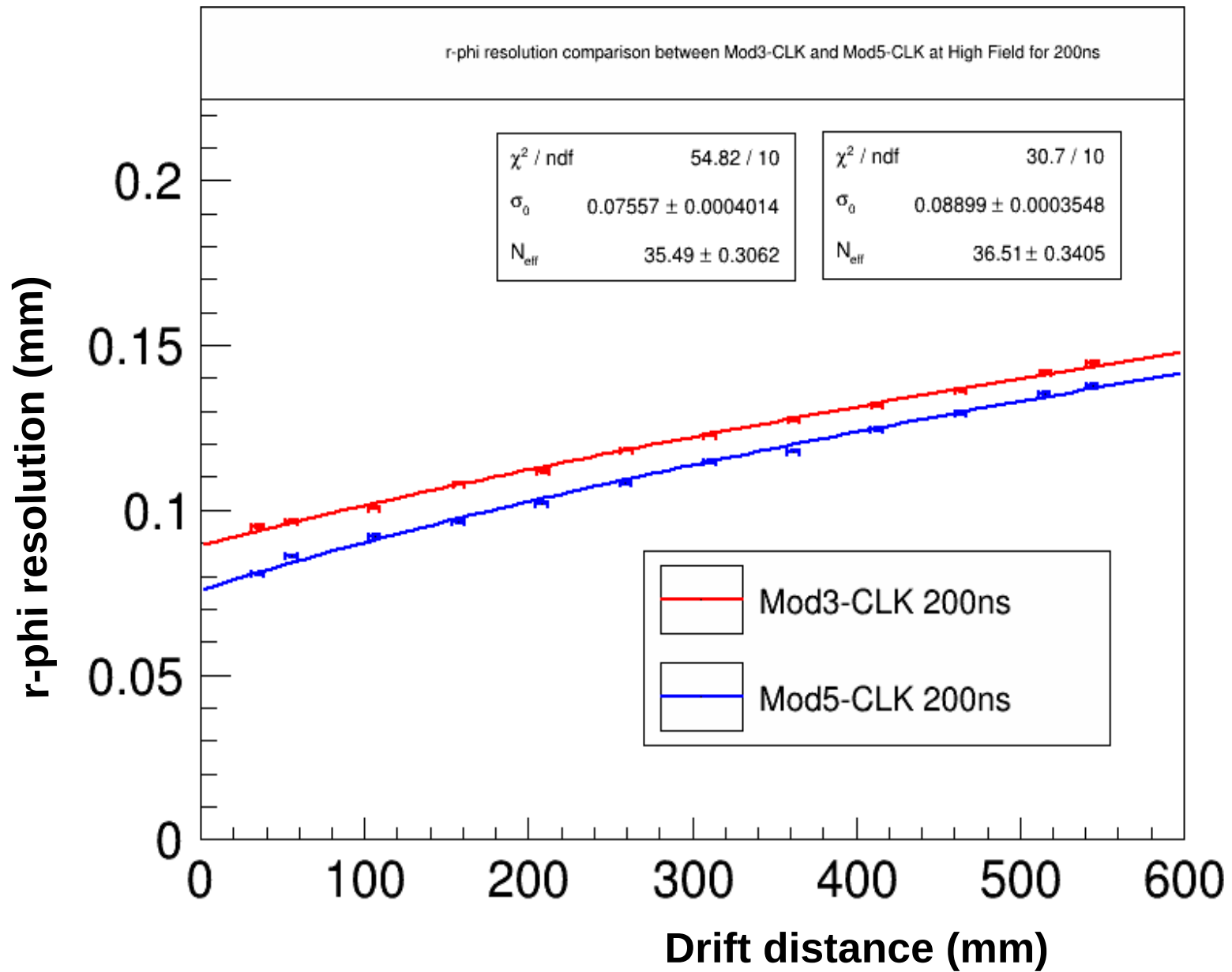


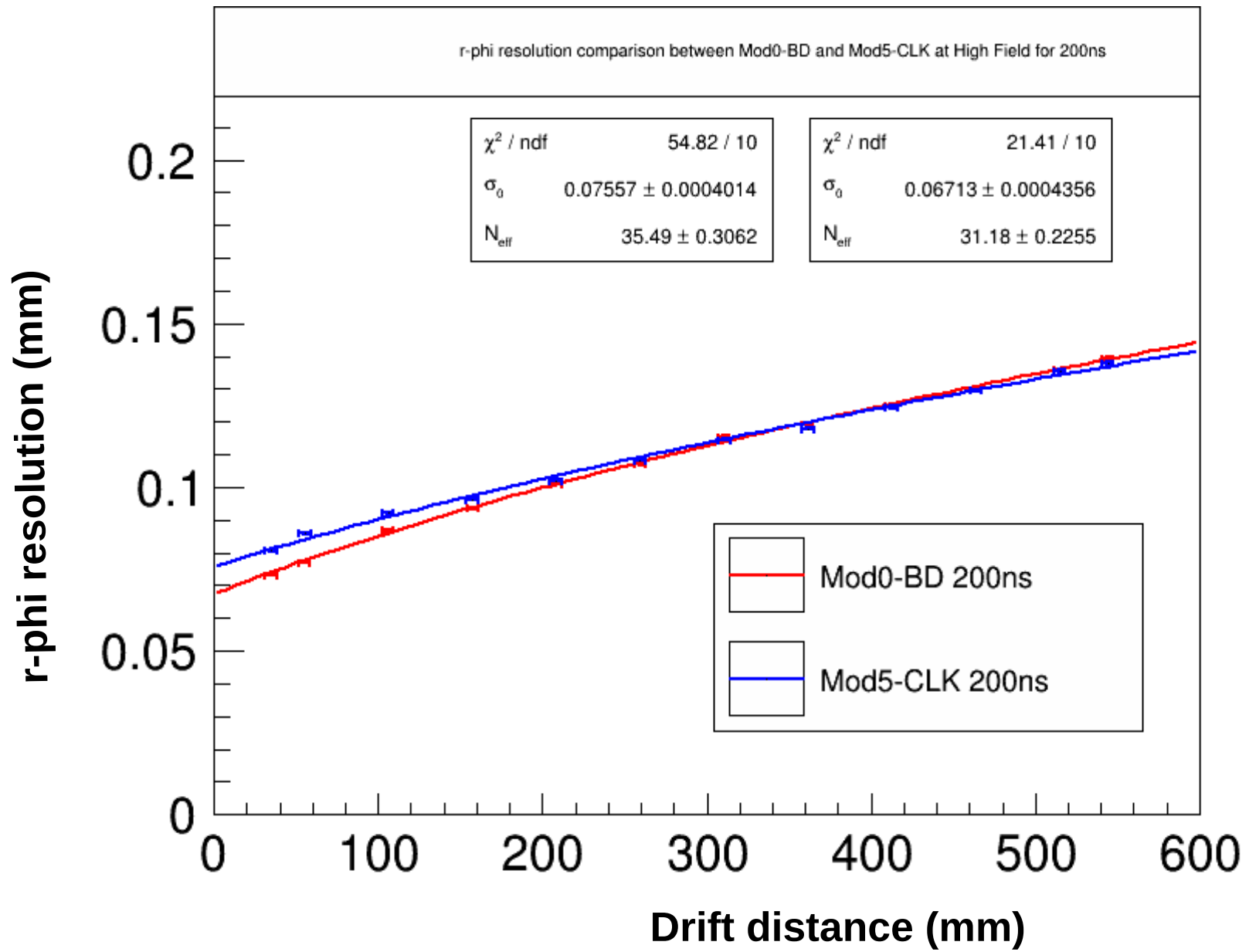
Capacitance per unit area is higher in 'BD' than in 'CLK'

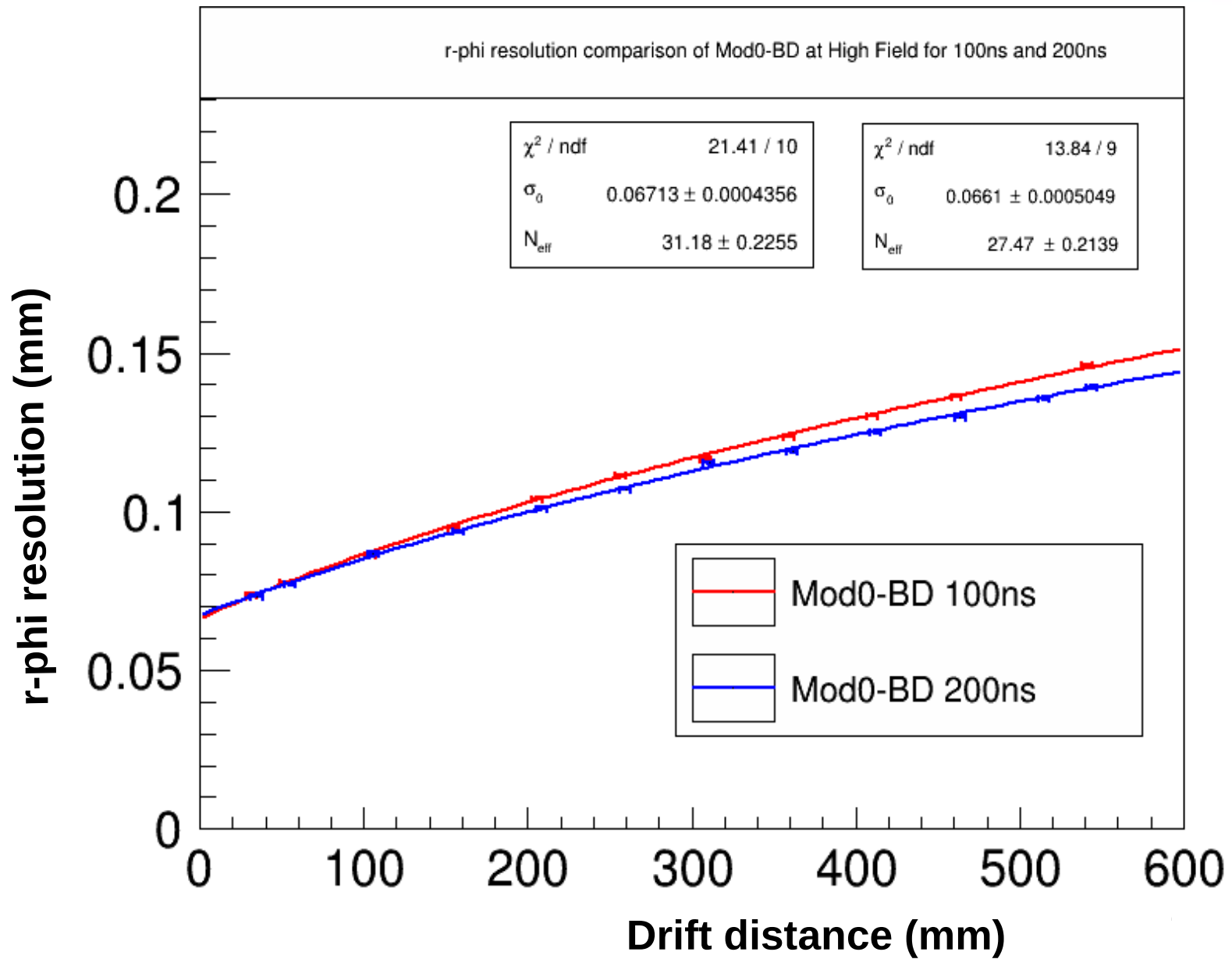
Normalized highest Pulse profile for BD and CLK



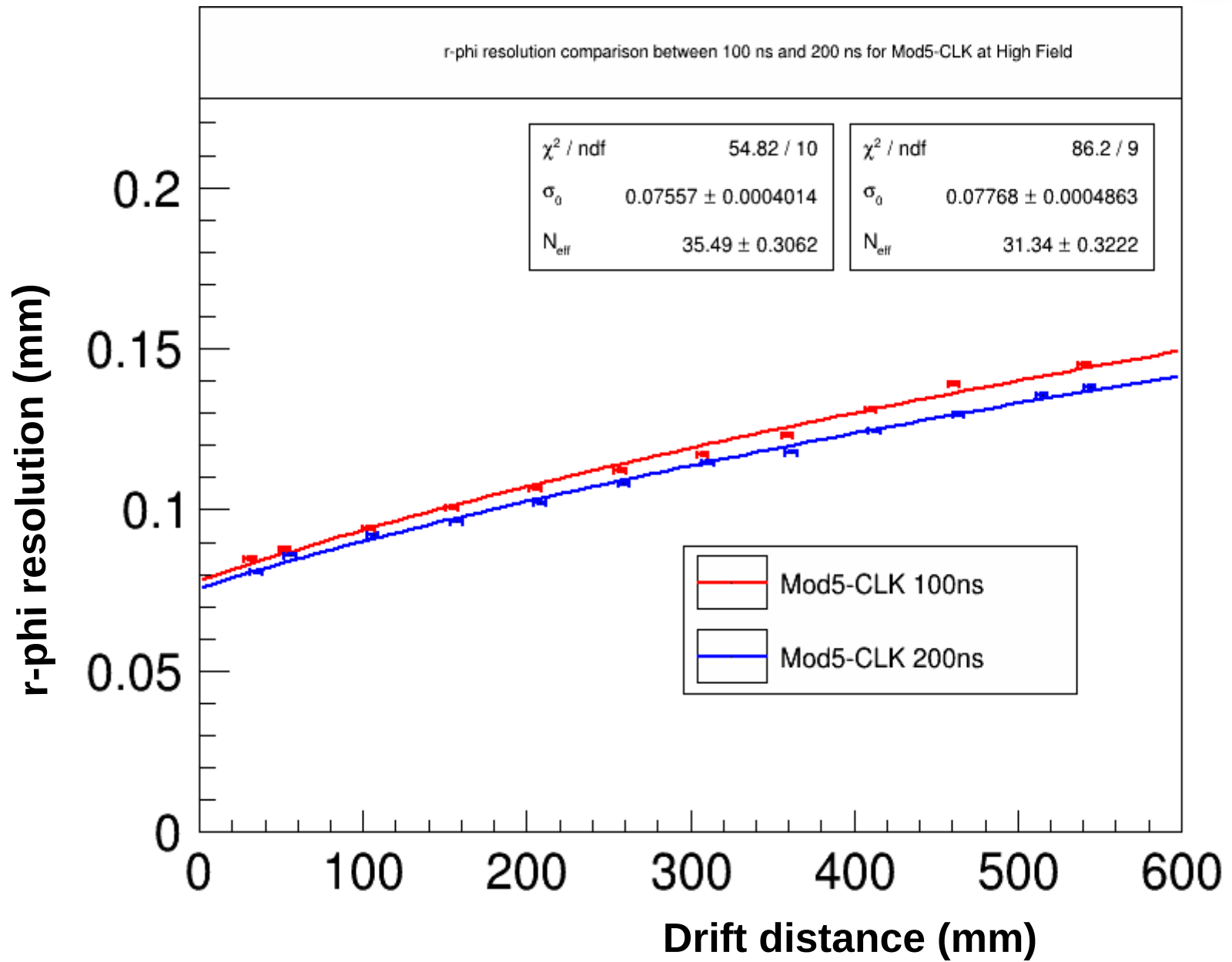
Pulse shape is comparable in BD and in CLK



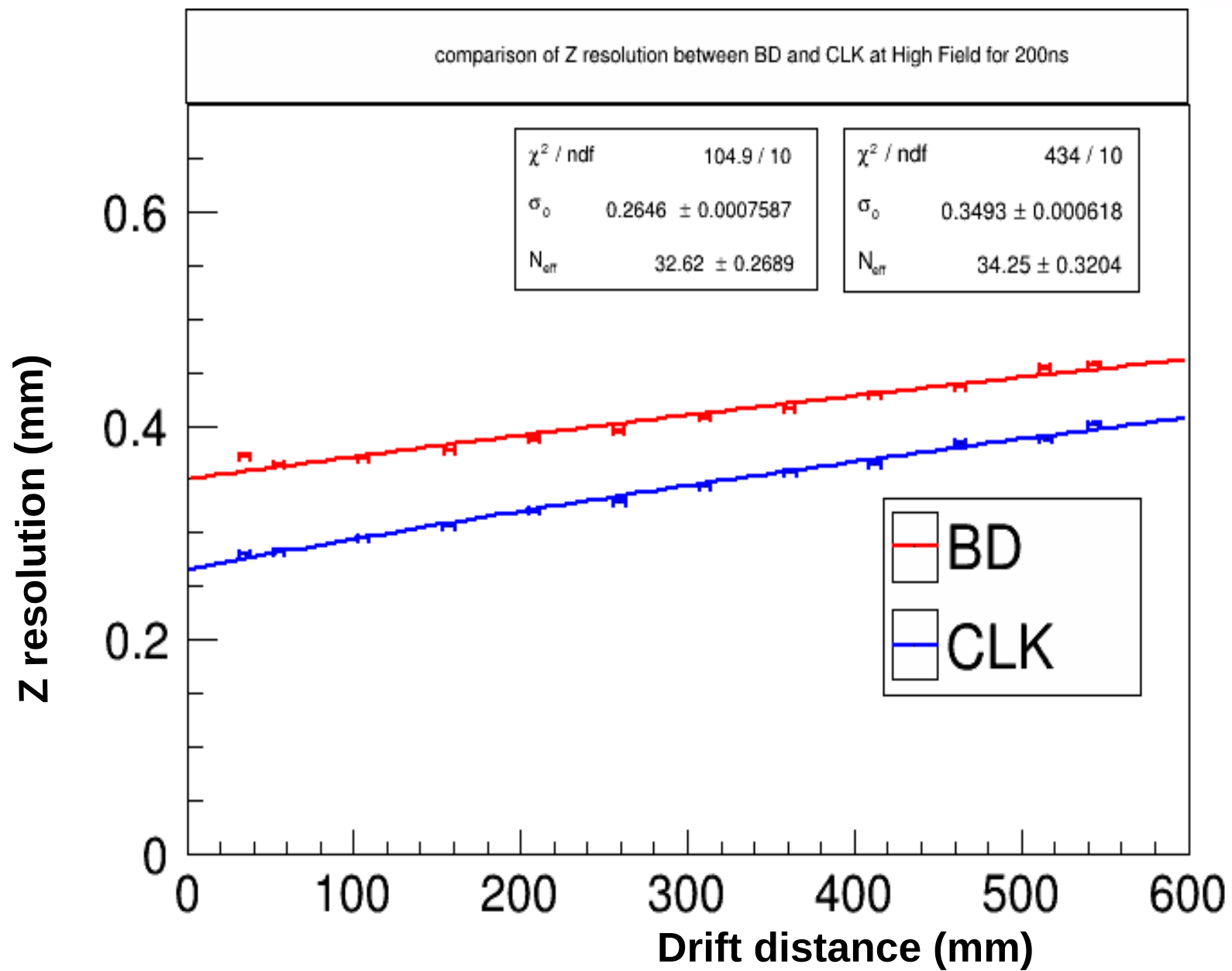


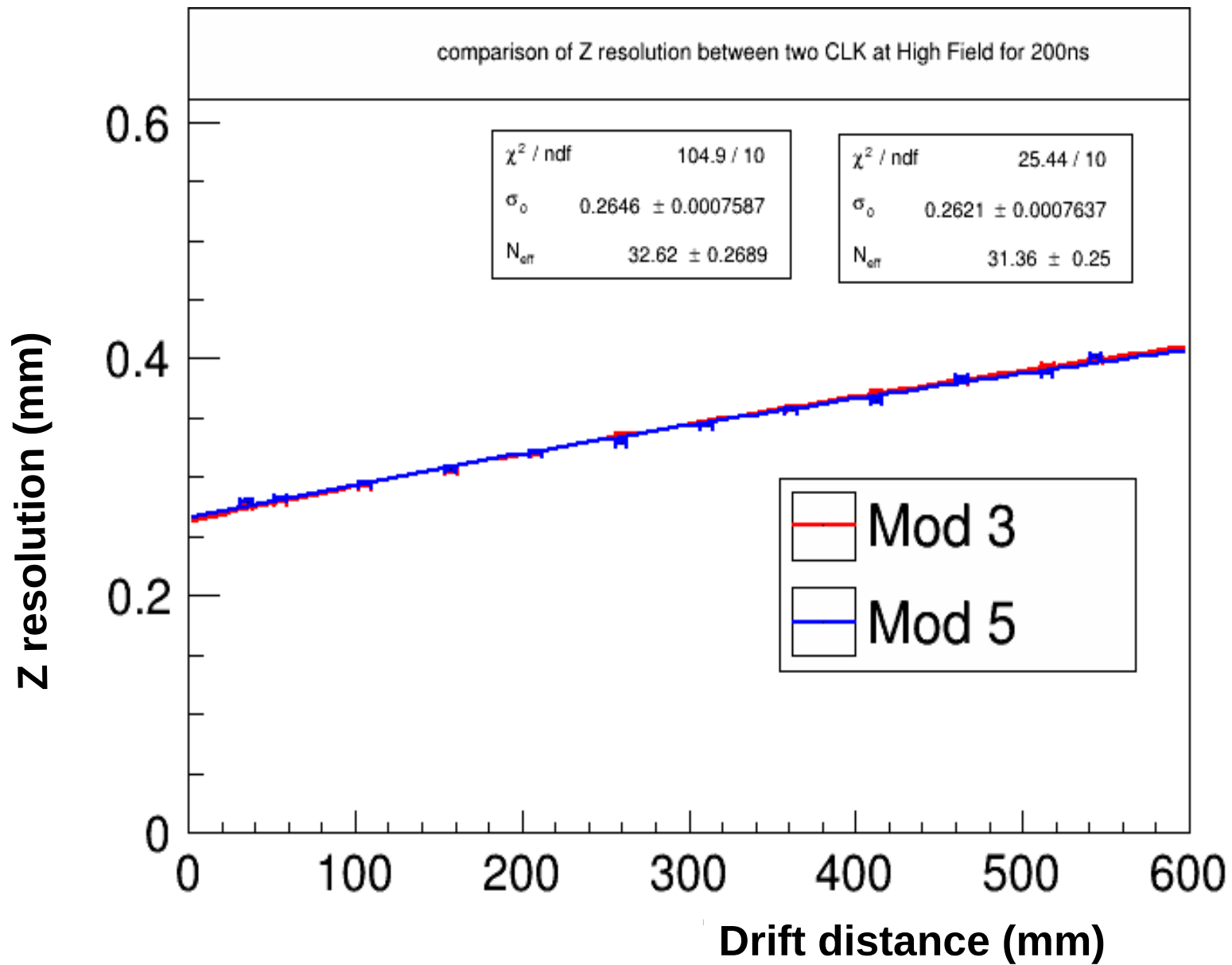


100 ns peaking time too short for large drift distances

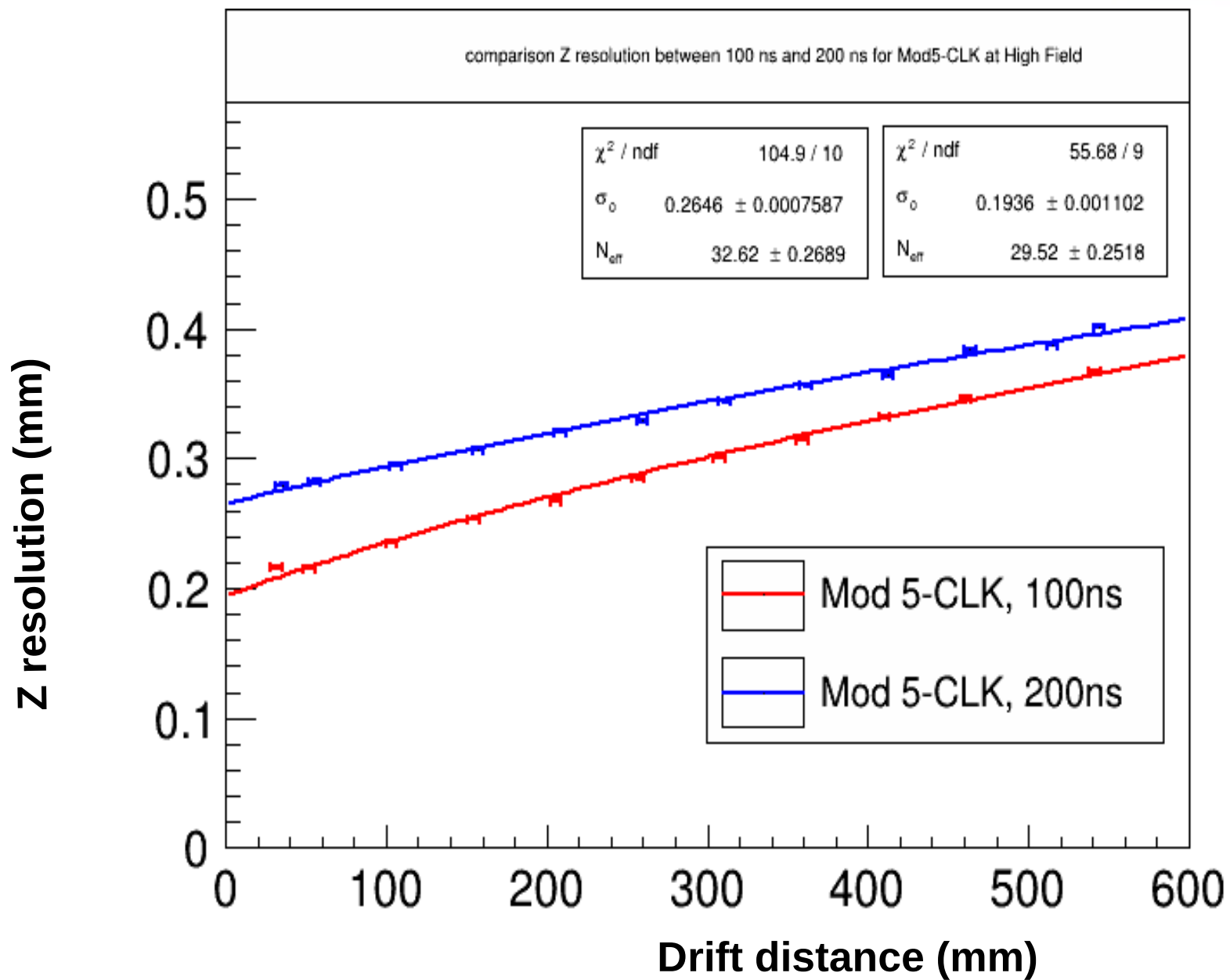


100 ns peaking time too short for large drift distances

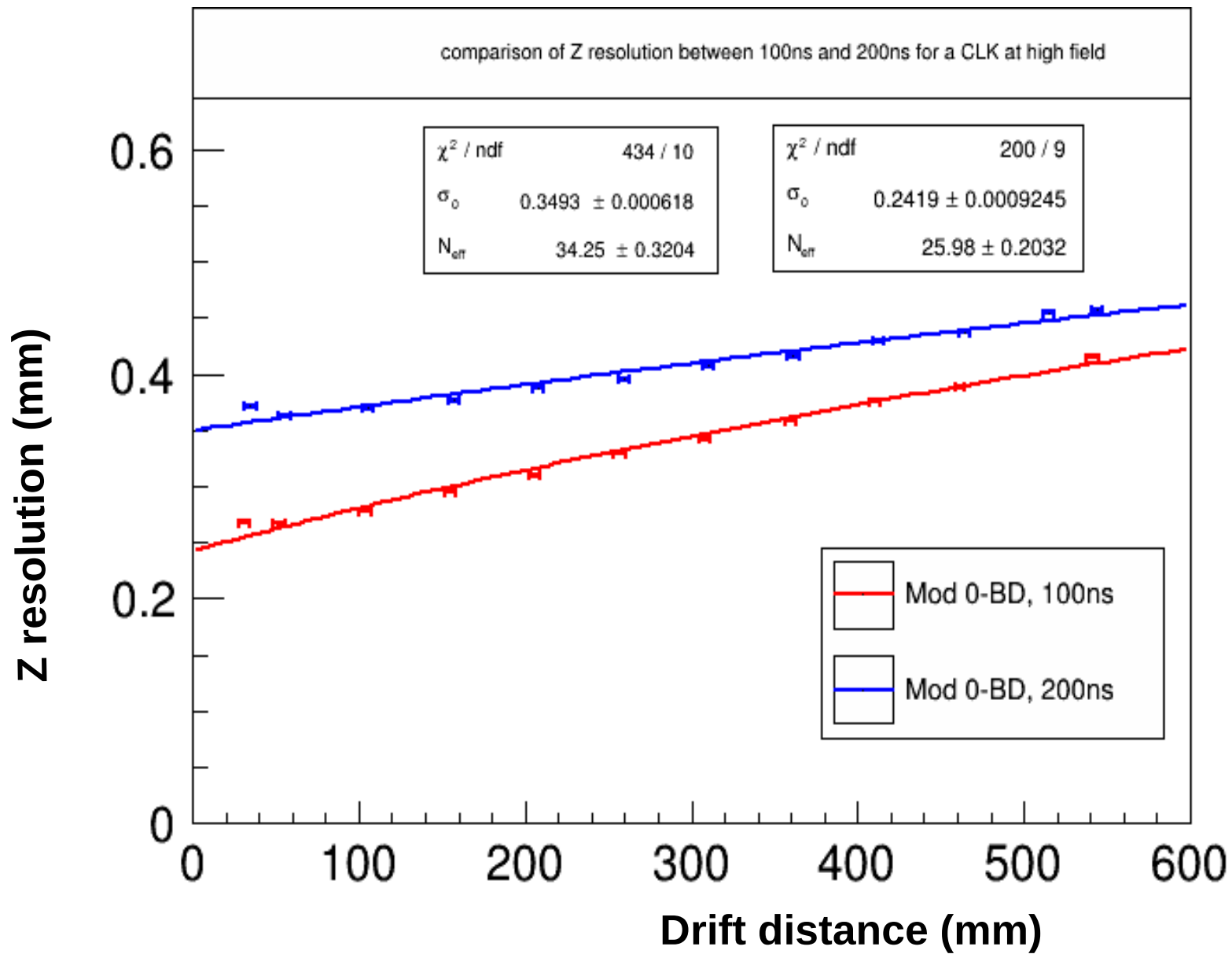




Two CLK are consistent



Z resolution is differing with peaking time



Z resolution is differing with peaking time

Thank you