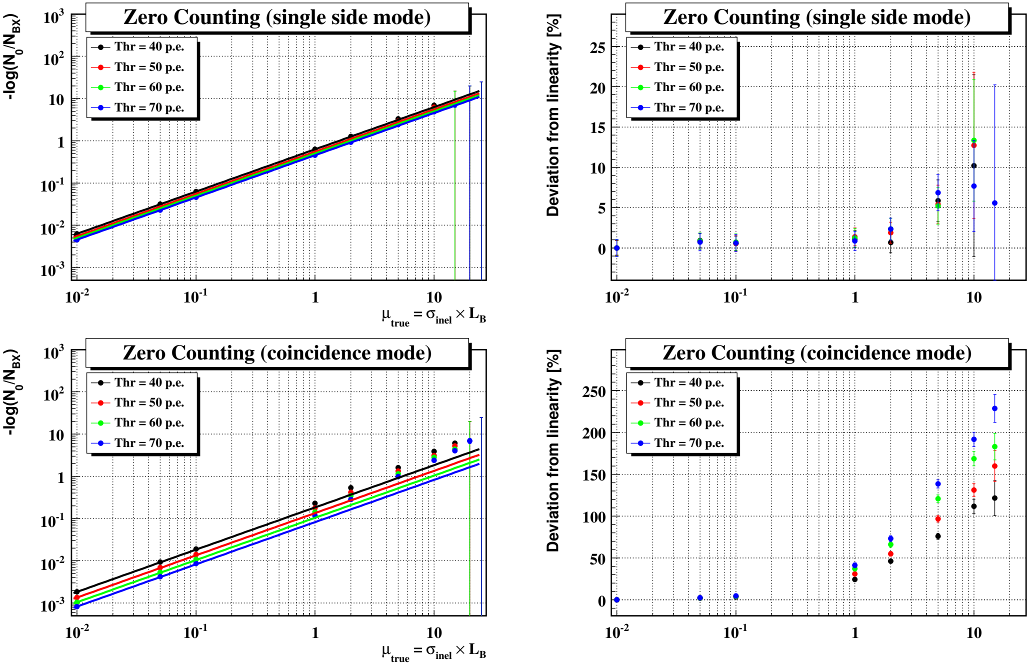

Figure 25. *Comparison between measured LUCID response (dots) and prediction of the linear model (solid line) with zero counting method in single side (top-left) and coincidence mode (bottom-left). The deviation from the prediction is shown in the right plots.*

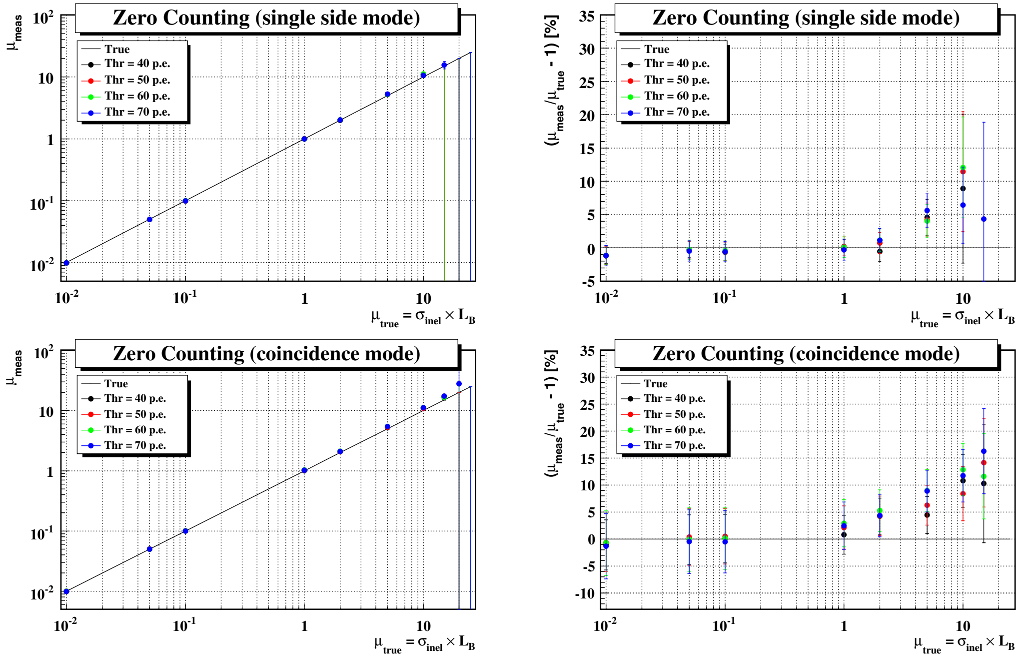

Figure 27. *Comparison between the average number of interactions per bunch crossing measured with LUCID (dots) and predicted with the combinatorial model (solid line) by counting the number of empty bunches in single side (top-left) and coincidence mode (bottom-left). The deviation from the prediction is shown in the right plots.*

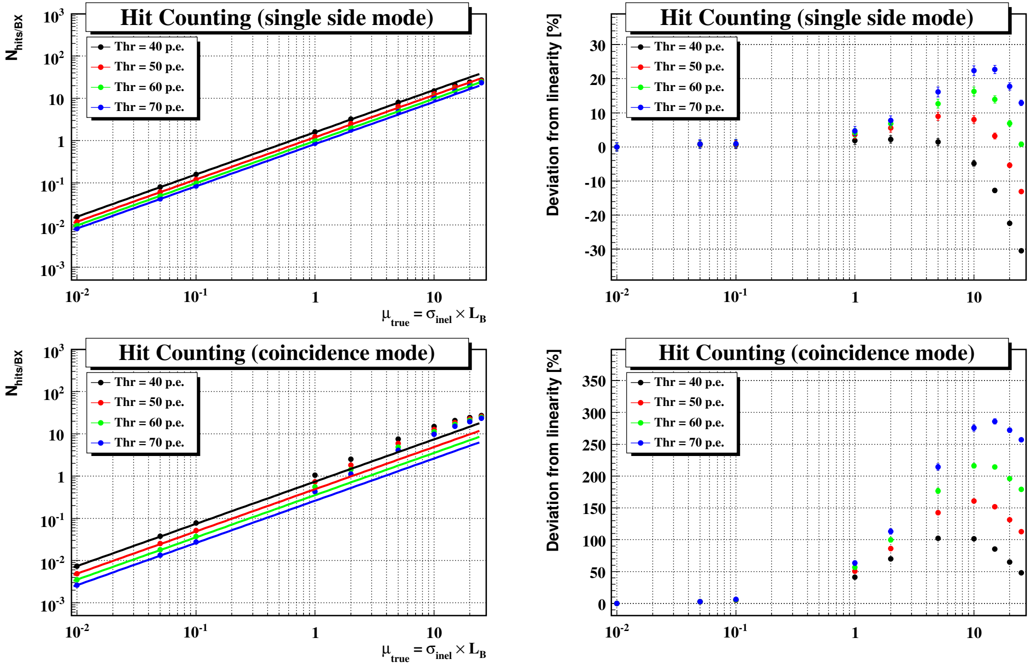

Figure 26. *Comparison between measured LUCID response (dots) and prediction of the linear model (solid line) with hit counting method in single side (top-left) and coincidence mode (bottom-left). The deviation from the prediction is shown in the right plots.*

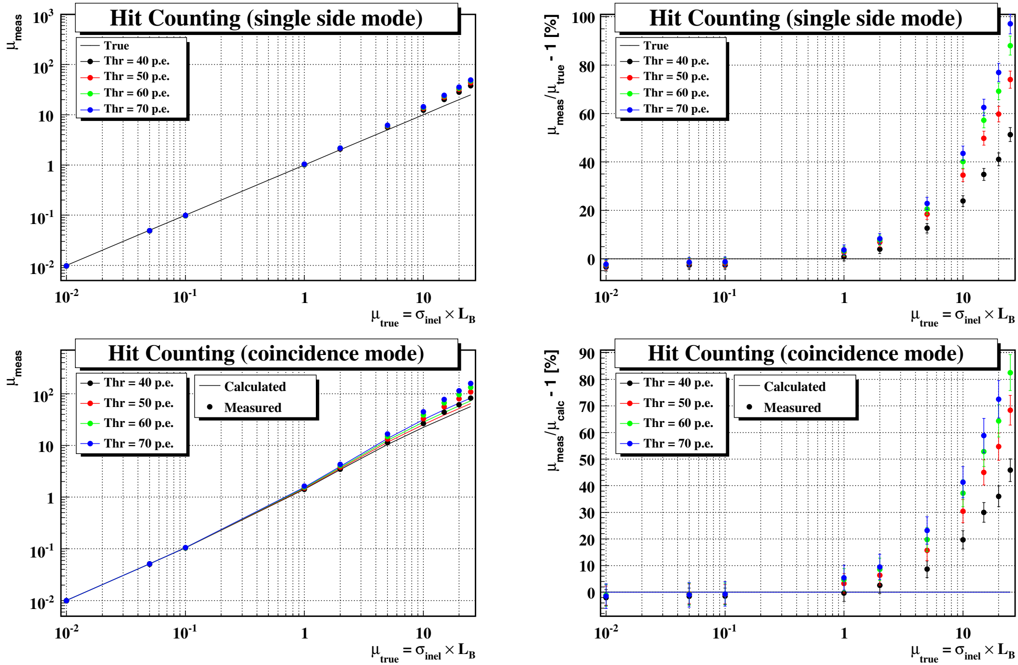

Figure 28. *Comparison between the average number of interactions per bunch crossing measured with LUCID (dots) and predicted with the combinatorial model (solid line) by counting the number of hits in single side (top-left) and coincidence mode (bottom-left). The deviation from the prediction is shown in the right plots.*

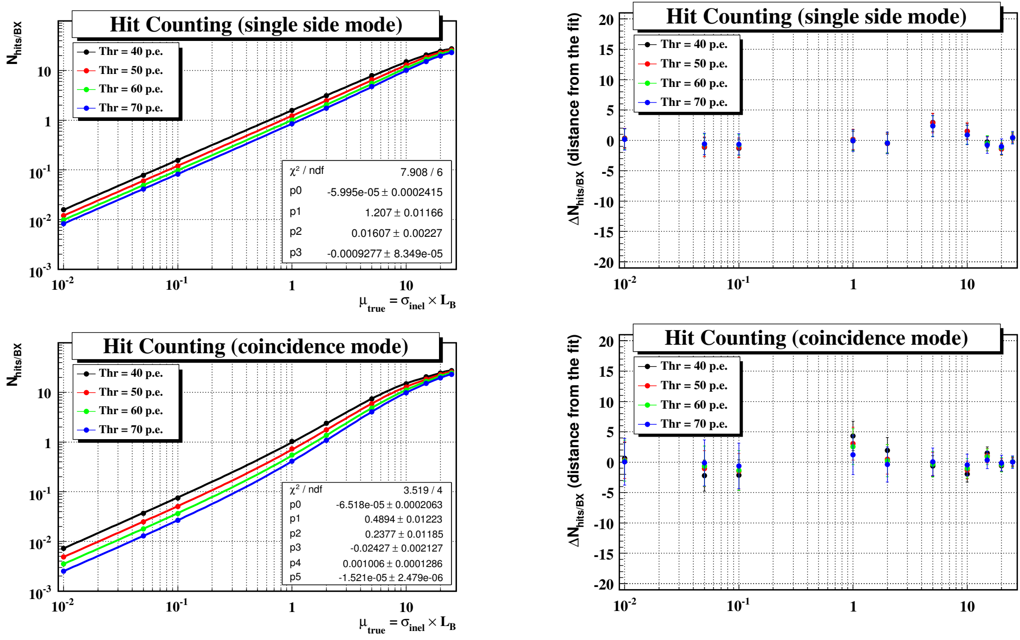

Figure 29. *Polynomial fit of $N_{hits/BX}$ as a function of the true value in single side (top-left) and coincidence mode (bottom-left). The deviation from the fit is shown in the right plots.*