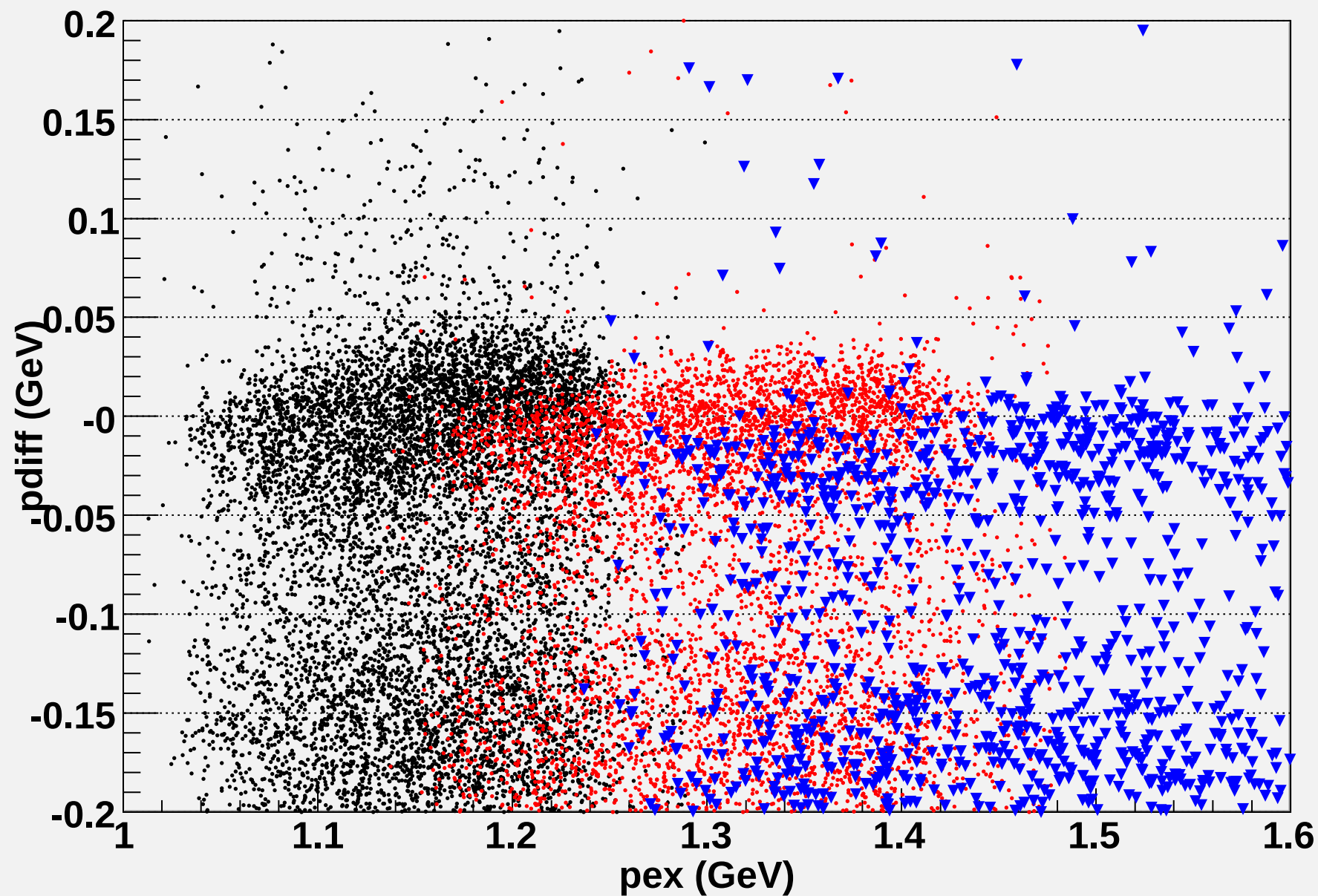


# **Biweekly Meeting**

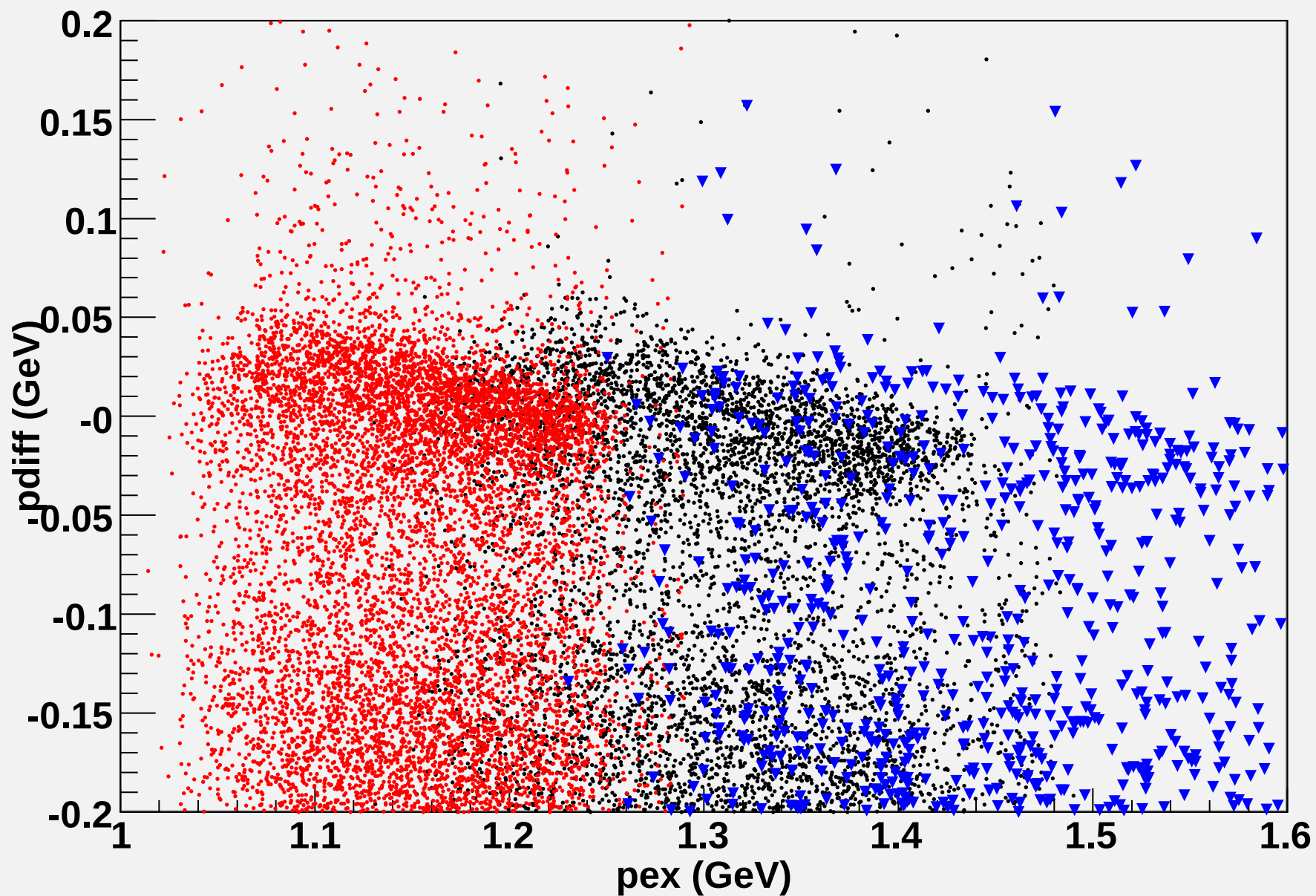
Seamus Riordan

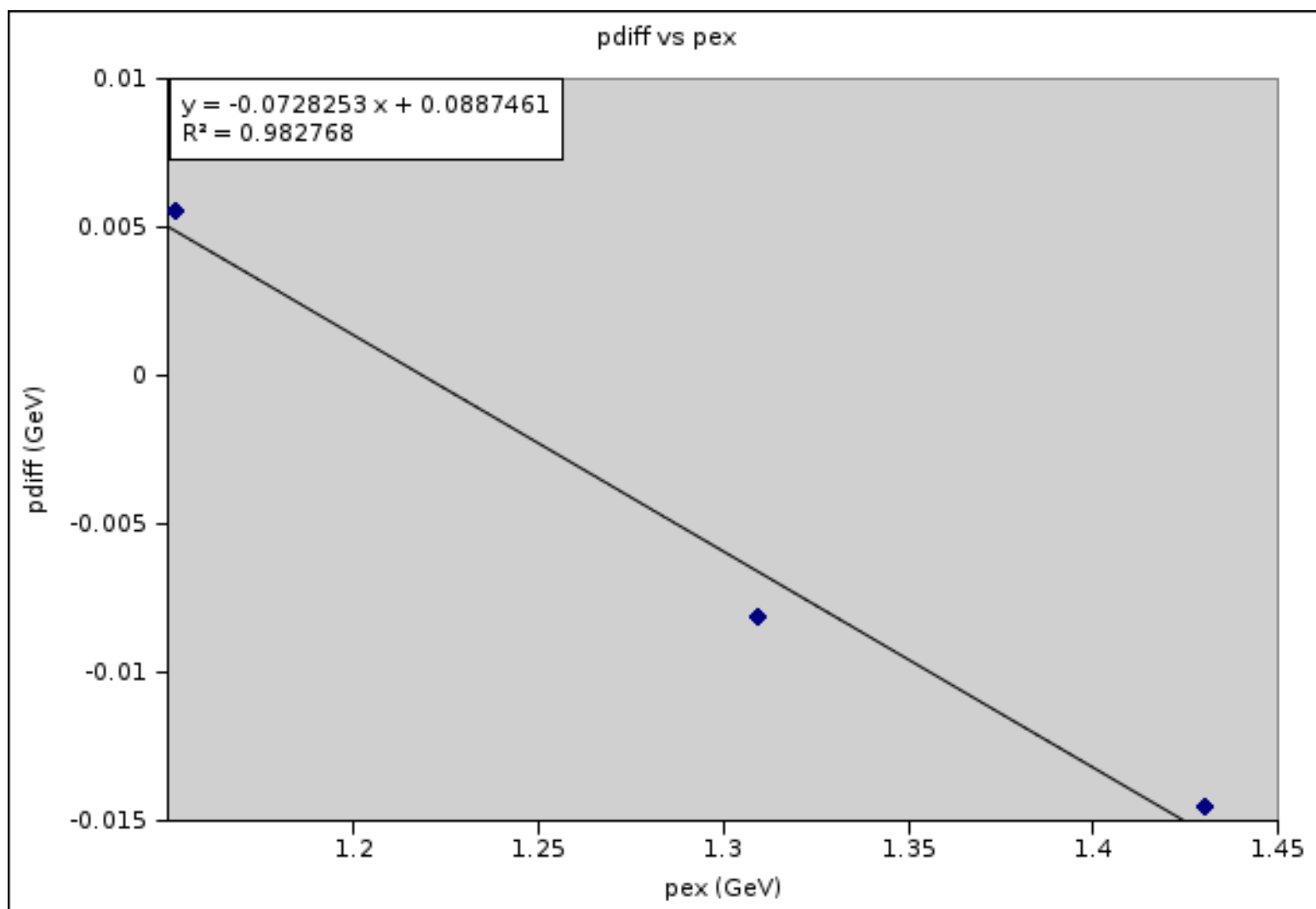
September 5, 2007

pdiff vs pex - Kin2-4 - Full correction



# pdiff vs pex - Kin2-4 - No inplane corrections





$$\delta = p - p_{\text{ex}}$$

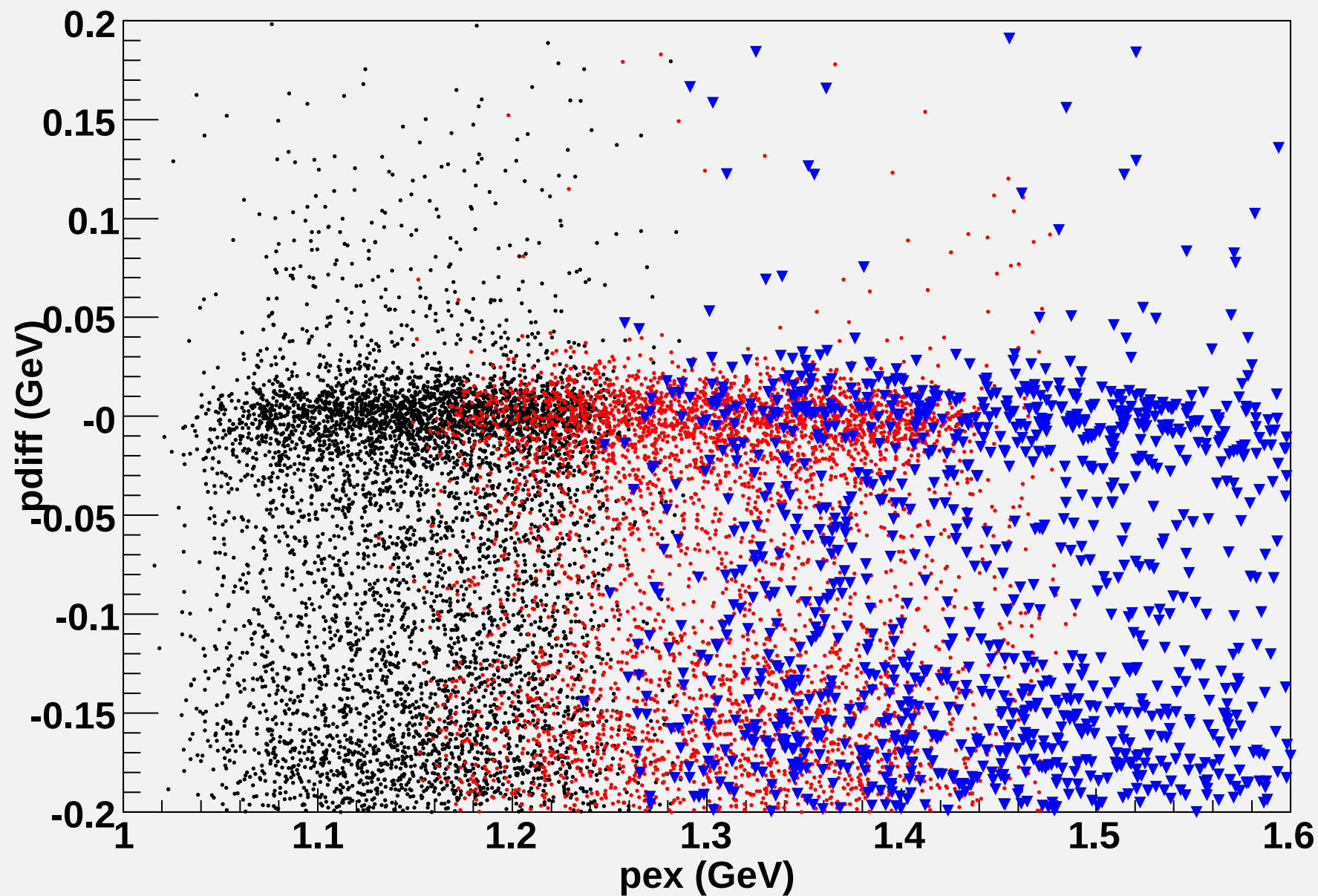
$$\delta(p_{\text{ex}}) = mp_{\text{ex}} + b$$

$$m = -0.0728, \, b = 0.0887 \text{ GeV}$$

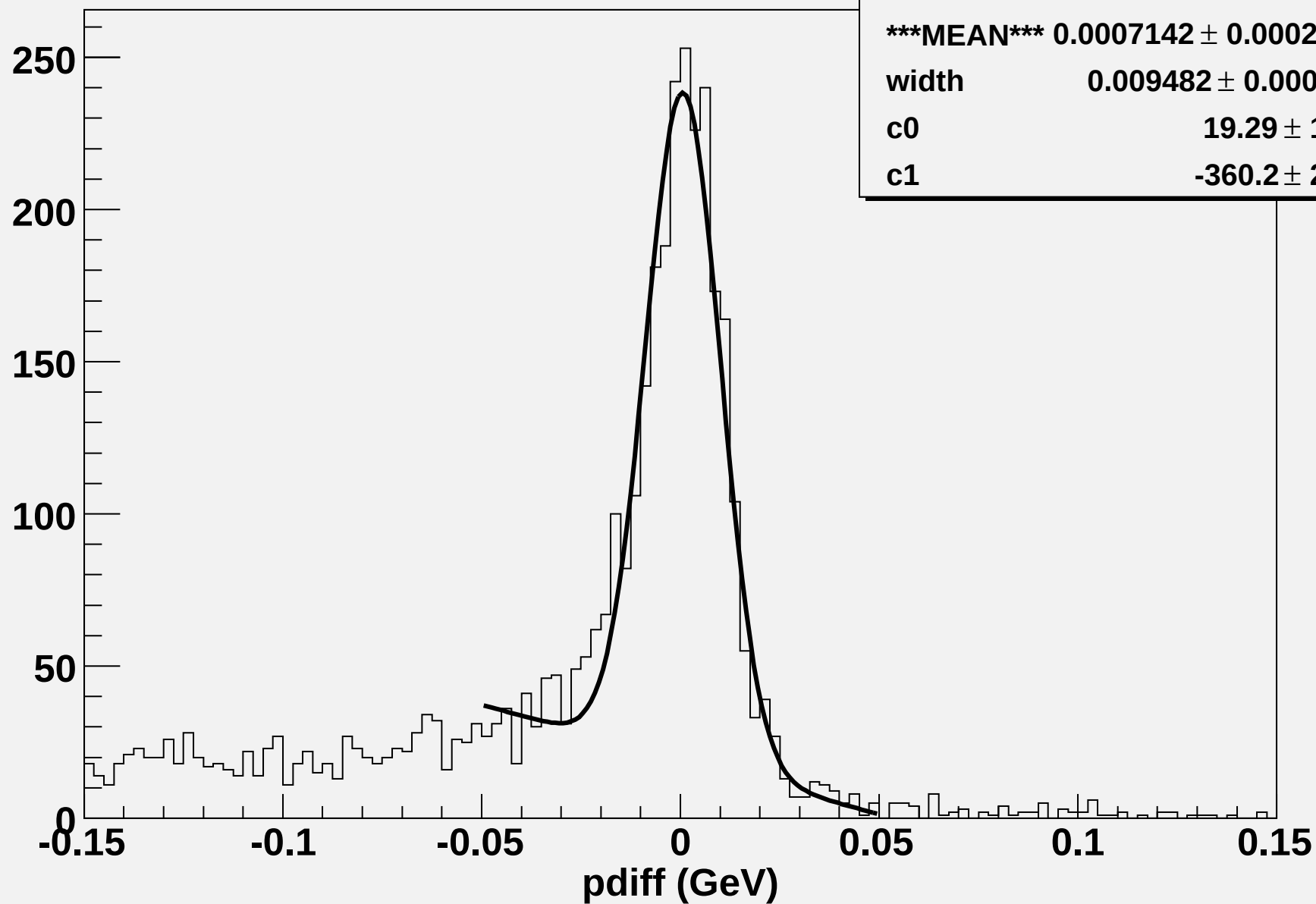
$$\delta(p_{\text{ex}}) = \frac{\delta(p)}{1 - m} \tag{1}$$

$$p \rightarrow p - \frac{\delta(p)}{1 - m} \tag{2}$$

pdiff vs pex - Kin2-4 - Full correction



# pdiff - Kin 4 - Resolution 1% sigma



### Flat Acceptance

|                 | Neutral Back/Meas |     |         | Charge/Back Meas |     |          |
|-----------------|-------------------|-----|---------|------------------|-----|----------|
| pm, $\parallel$ | 0.226             | +/- | 0.00199 | 0.0135           | +/- | 5.68E-05 |
| pm, $\perp$     | 0.113             | +/- | 0.001   | 0.00949          | +/- | 4.01E-05 |
| beta>1          | 0.093             | +/- | 0.00082 | 0.001            | +/- | 4.2E-06  |

### beta>1 acceptance

|                 | Neutral Back/Meas |     |         | Charge/Back Meas |     |          |
|-----------------|-------------------|-----|---------|------------------|-----|----------|
| pm, $\parallel$ | 0.203             | +/- | 0.00252 | 0.014            | +/- | 0.000112 |
| pm, $\perp$     | 0.148             | +/- | 0.00094 | 0.0129           | +/- | 5.39E-05 |
| beta>1          | 0.139             | +/- | 0.00022 | 0.00106          | +/- | 1.35E-05 |

|             |       |     |         |        |     |          |
|-------------|-------|-----|---------|--------|-----|----------|
| Mixed Event | 0.257 | +/- | 0.00703 | 0.0132 | +/- | 0.000528 |
|-------------|-------|-----|---------|--------|-----|----------|

### Background Cuts

|                 |          |   |                 |            |
|-----------------|----------|---|-----------------|------------|
| pm, $\parallel$ | 0.60 GeV | < | pm, $\parallel$ | < 0.70 GeV |
| pm, $\perp$     | 0.30 GeV | < | pm, $\perp$     | < 0.35 GeV |
| beta>1          | 20ns     | < | t               | < 30ns     |

### QE Cut

|           |   |                 |            |
|-----------|---|-----------------|------------|
| -0.25 GeV | < | pm, $\parallel$ | < 0.25 GeV |
| 0 GeV     | < | pm, $\perp$     | < 0.15 GeV |
| 0.8GeV    | < | W               | < 1.15 GeV |