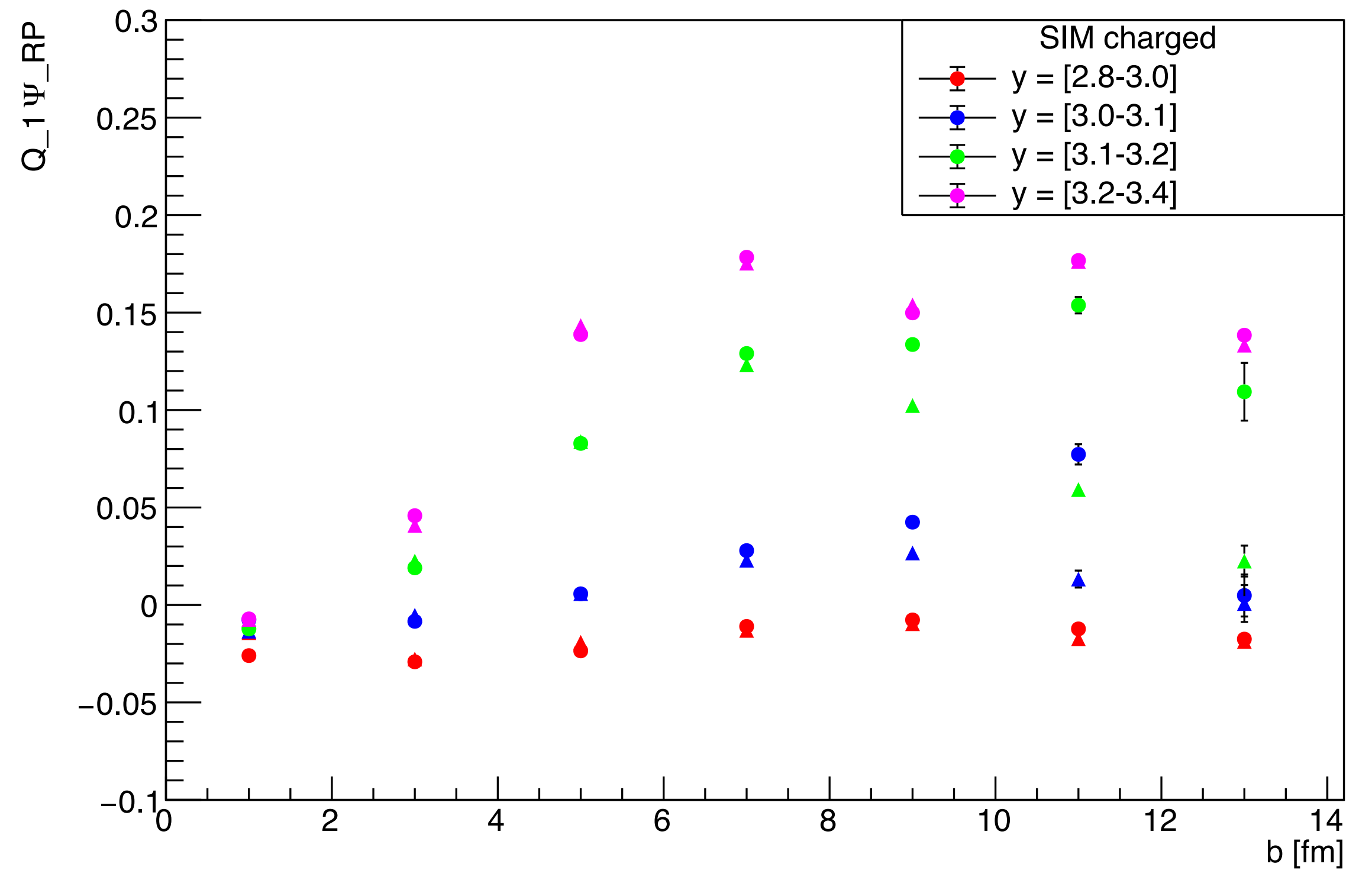
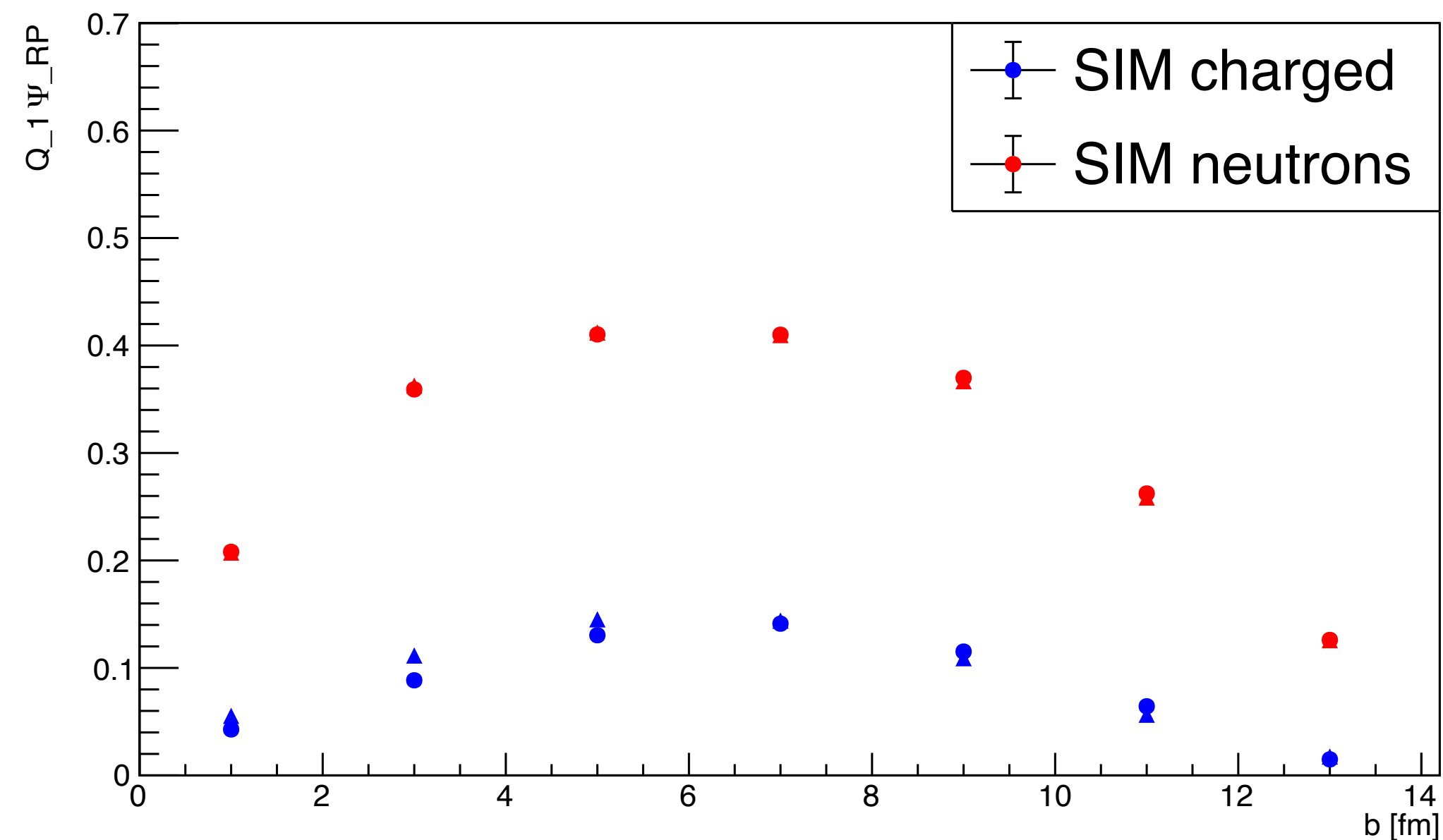


QN

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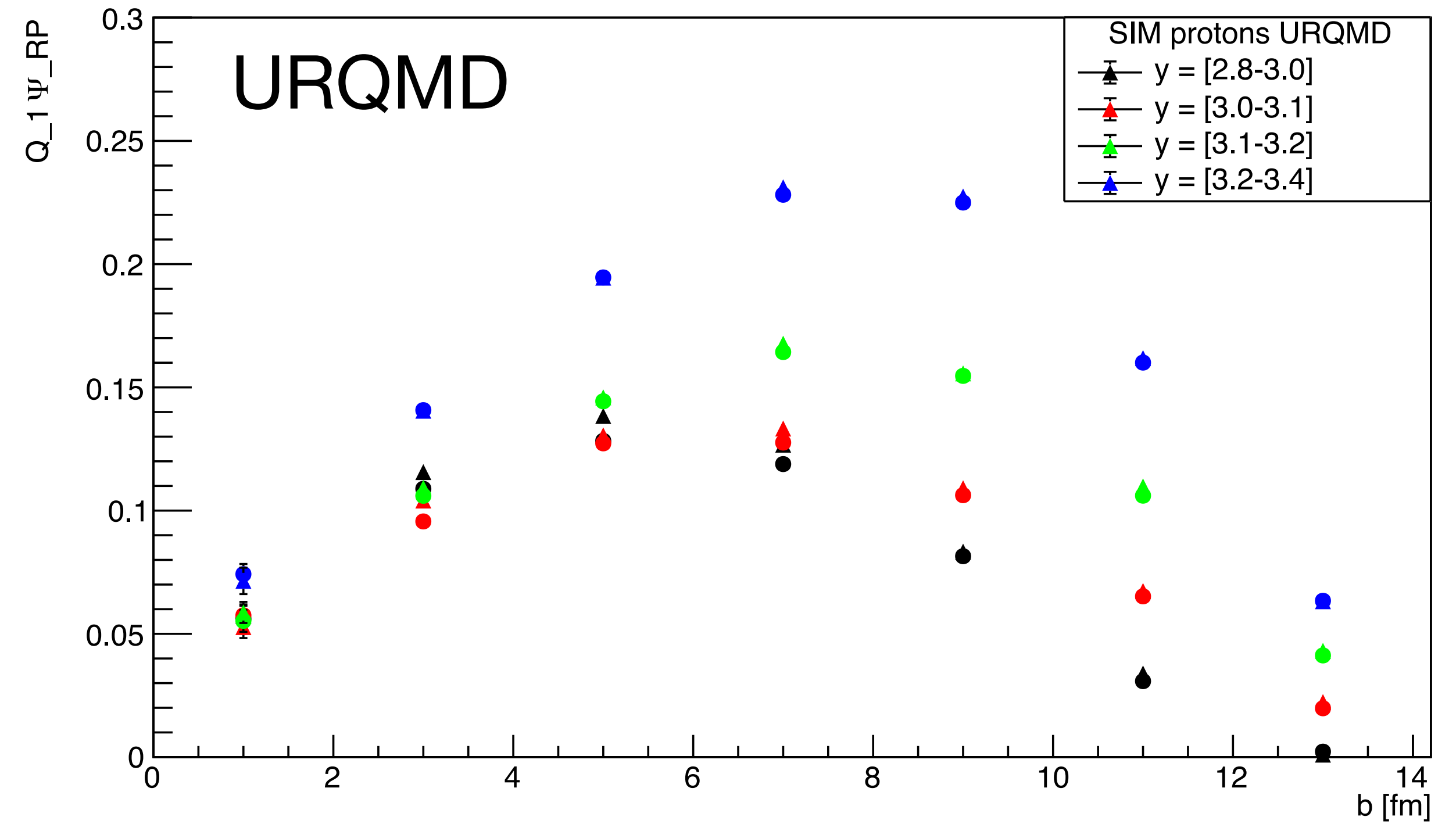
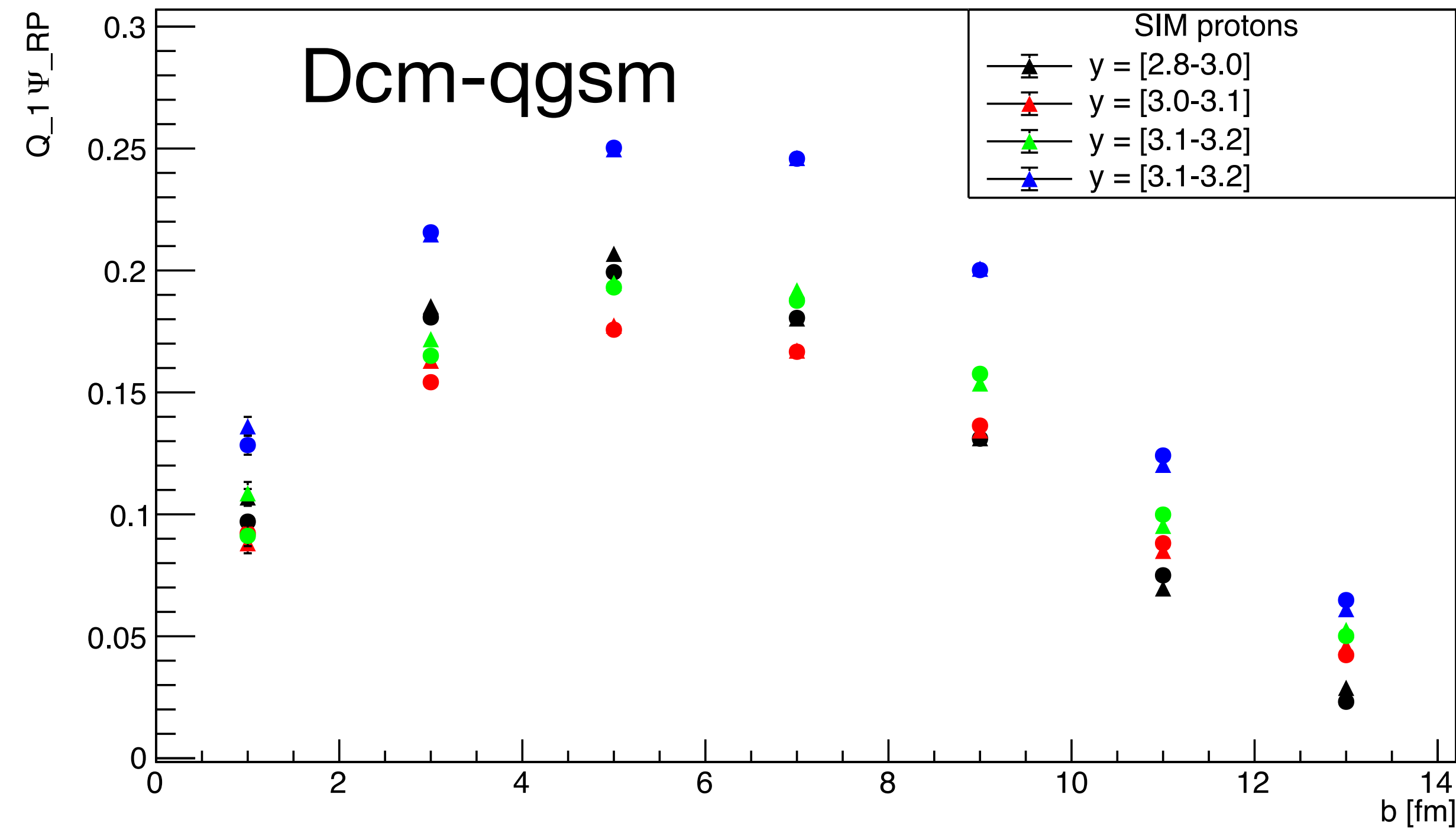
QN - SIM particles charged - rapidity

- NO correlation for rapidity below 3.1 (approx beam rapidity)
- Weight: charge2, ones (neutrons)



QN - SIM proton - rapidity

- Correlation in all rapidities



Overlap - region $r < 10$

- Overlap = hit has at least 2 points with length > 0
- 6x6 cm (r6) vs 1x1 cm (r5)
- 6x6 cm: 53%
- 1x1 cm: 25%

Overlap - region $10 < r < 20$

- 6x6 cm (r6) vs 1x1 cm (r5)
- 6x6 cm: 32%
- 1x1 cm: 11%

Overlap - region $20 < r < 40$

- 6x6 cm (r6) vs 1x1 cm (r5)
- 6x6 cm: 18%
- 1x1 cm: 8%

Overlap - region $40 < r < 80$

- 6x6 cm (r6) vs 1x1 cm (r5)
- 6x6 cm: 13%
- 1x1 cm: 6%