DJANGOH : COMPARISON RD/MC

Cuts

List of cuts :

Inclusive

- $Q^2 > 1$
- $0.004 < x < 0.4$
- $0.1 < y < 0.7$
- $5 < W < 17$

Semi-Inclusive

- $XX0 < 15$
- $3 < p_h < 40$
- $0.01 < \theta_h < 0.12$
- $x_{RICH}^2 + y_{RICH}^2 > 25$

Comparison of P09 (t2, full) with MC w/ Djangoh and P09 beam file

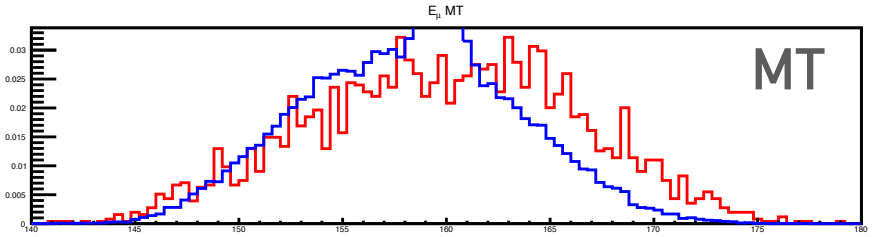
Djangoh w/ inelastic and (quasi-)elastic radiative corrections.
(Corrected a bug : was no gen of final state for (q)el events..)

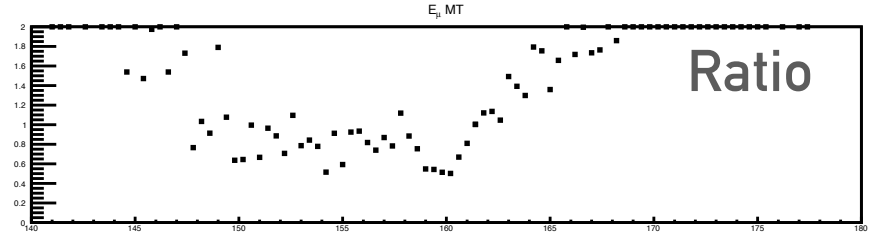
DJANGOH : COMPARISON RD/MC

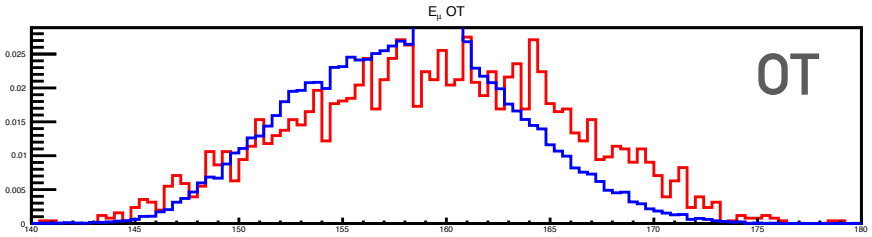
E_μ

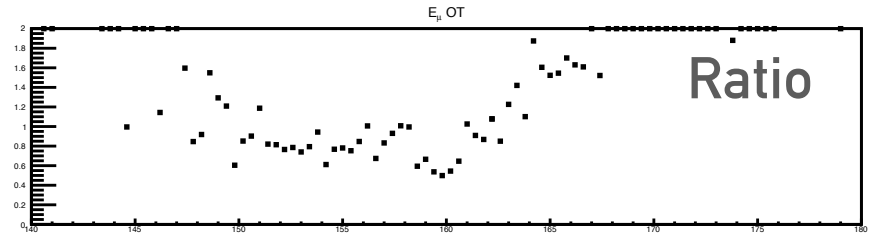
RD MC

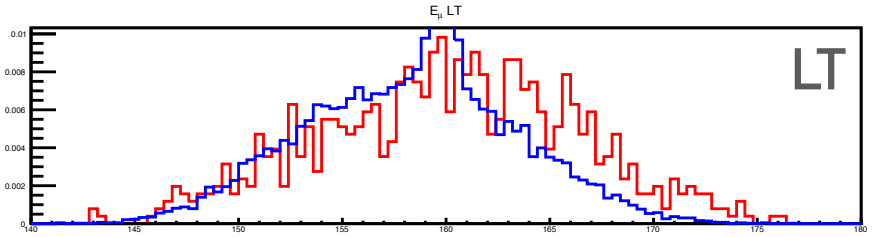
Normalized over OT events

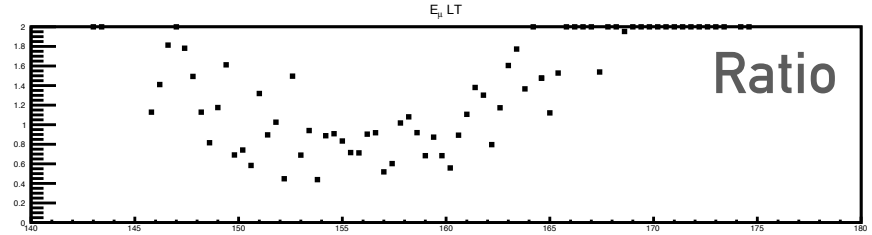


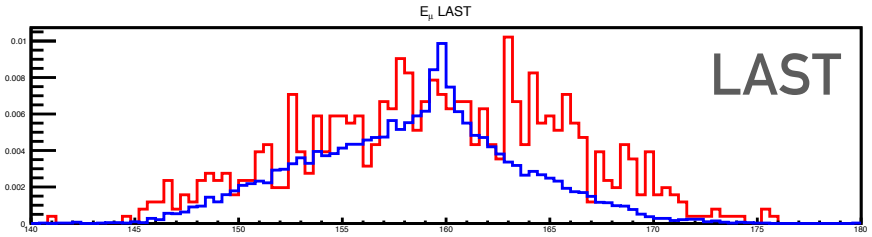


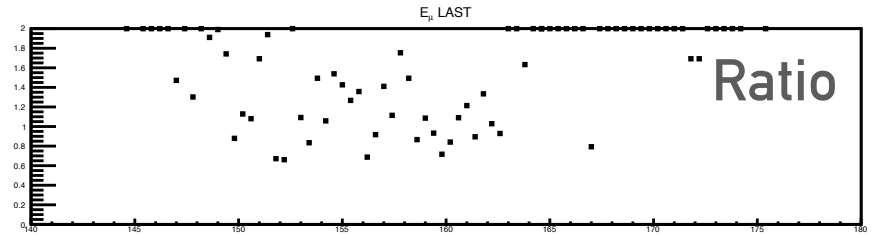










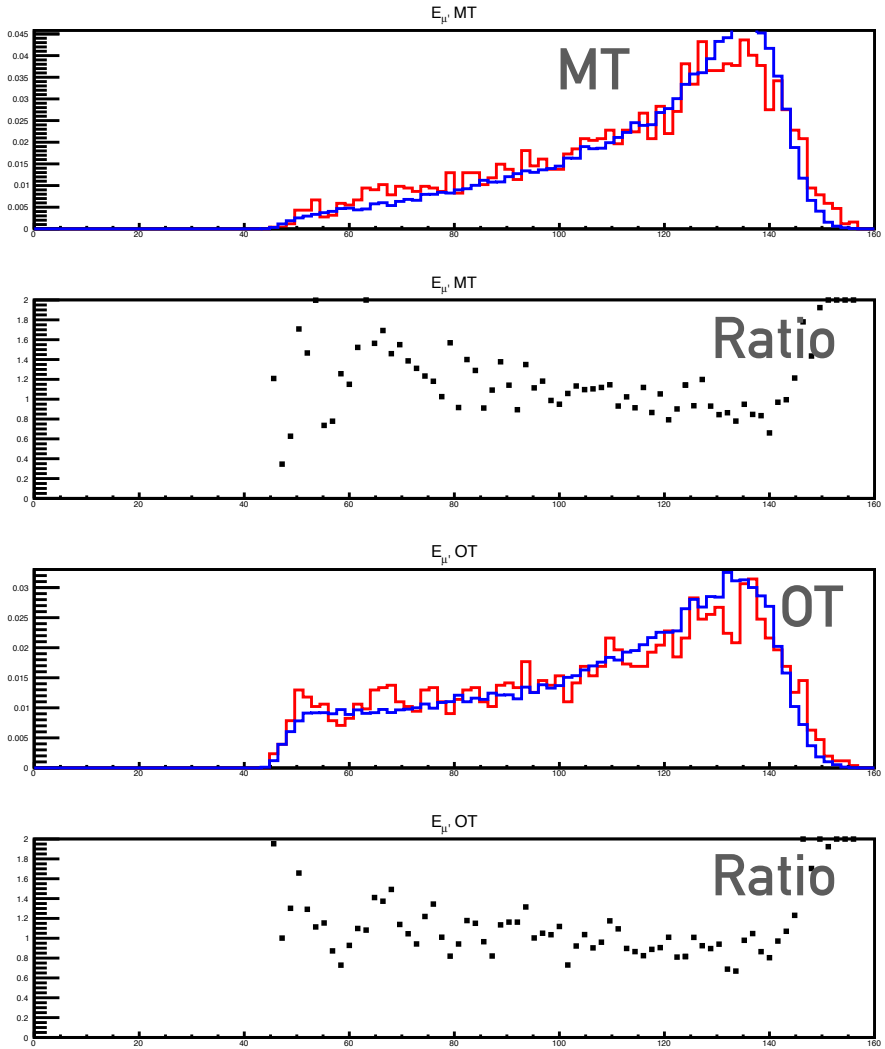


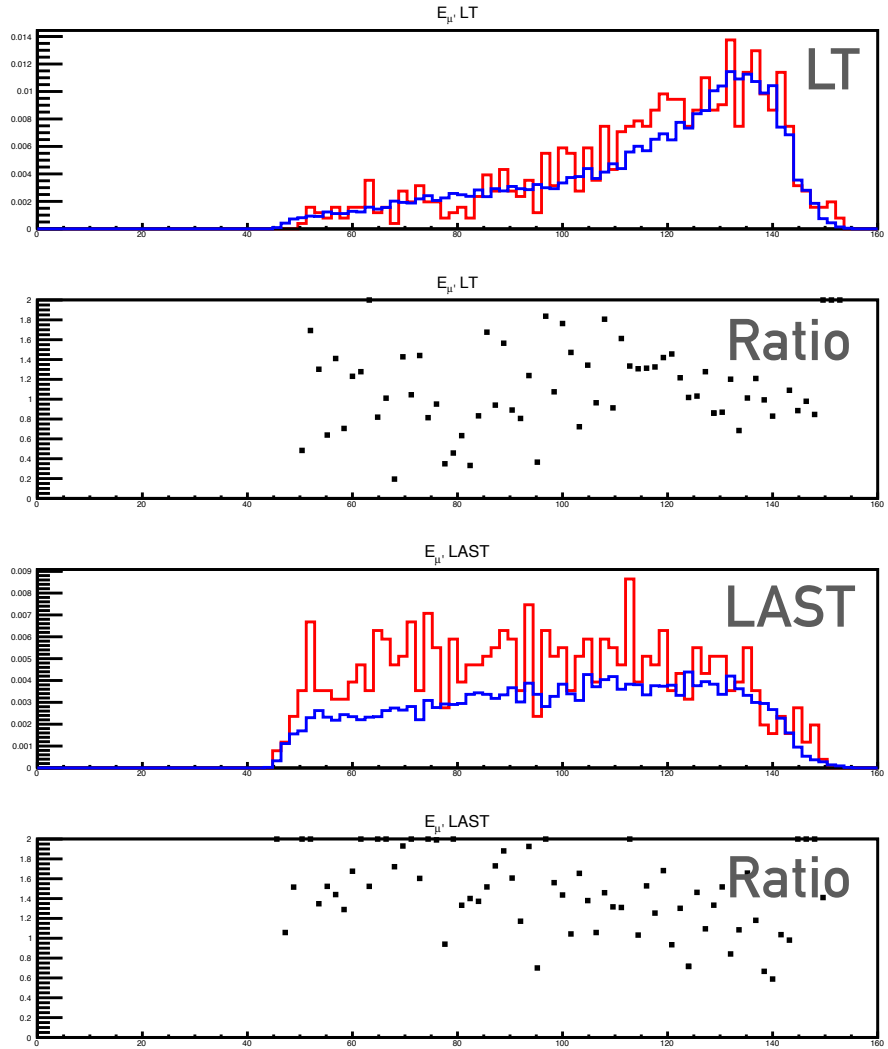
DJANGOH : COMPARISON RD/MC

$E_{\mu'}$

RD MC

Normalized over OT events



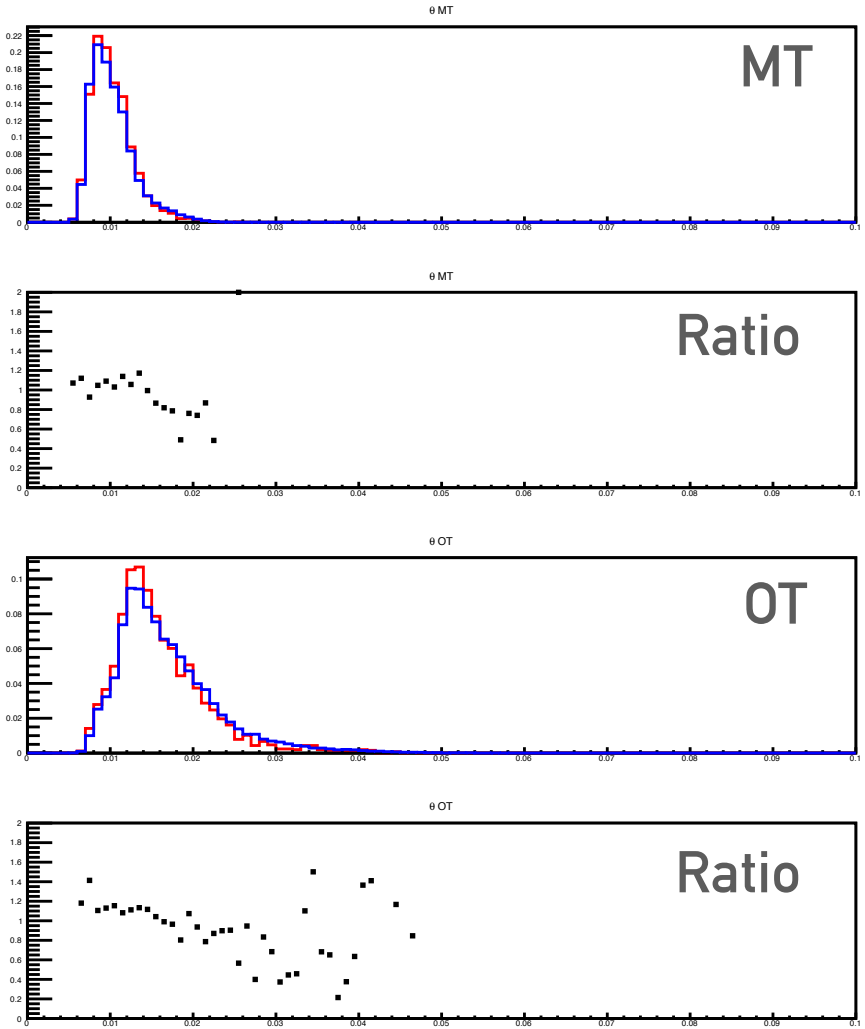


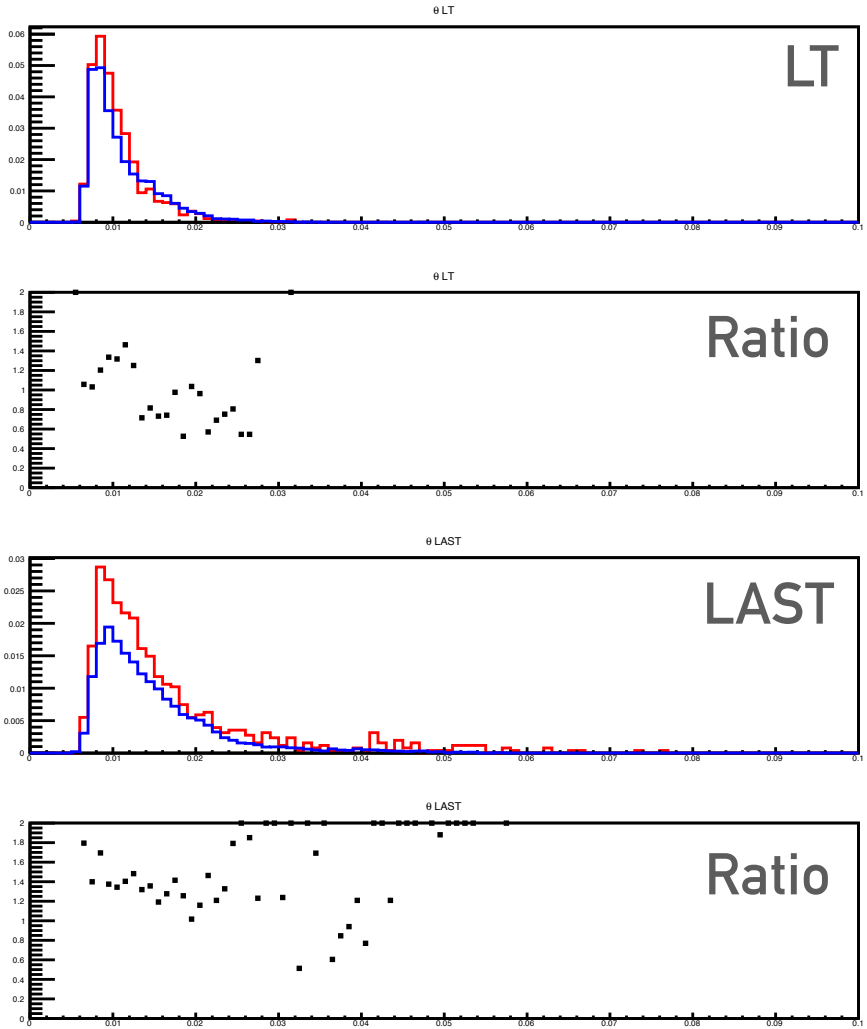
DJANGOH : COMPARISON RD/MC

θ

RD MC

Normalized over OT events



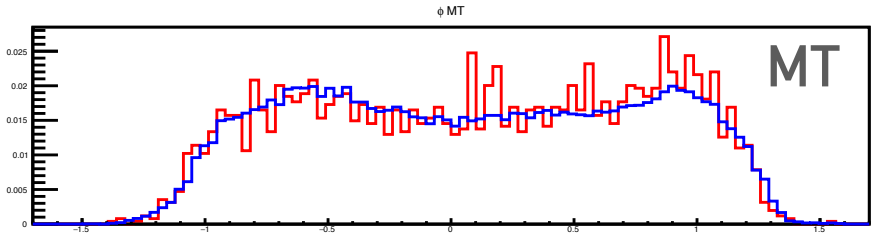


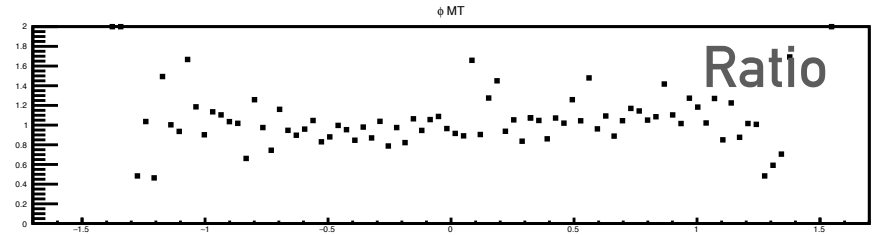
DJANGOH : COMPARISON RD/MC

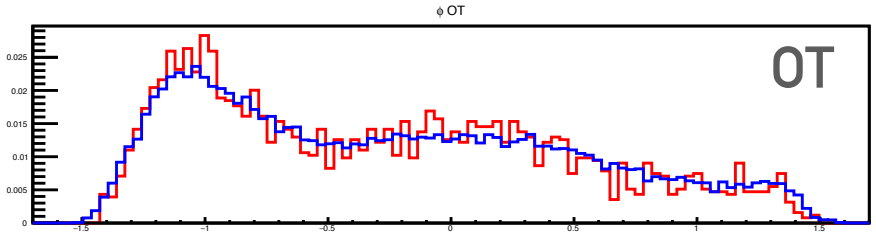
Φ

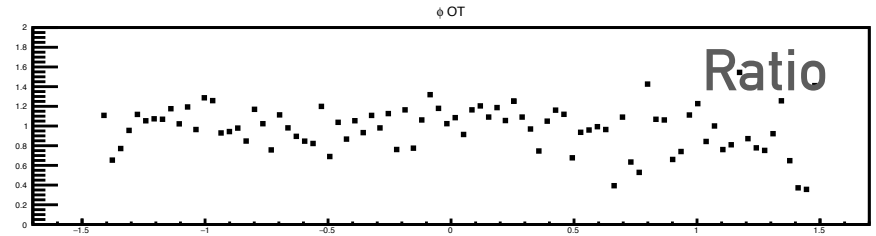
RD MC

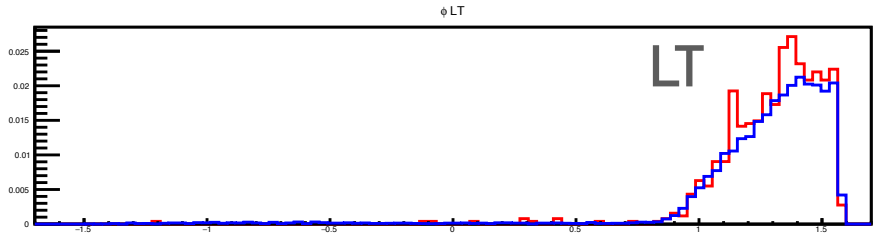
Normalized over OT events

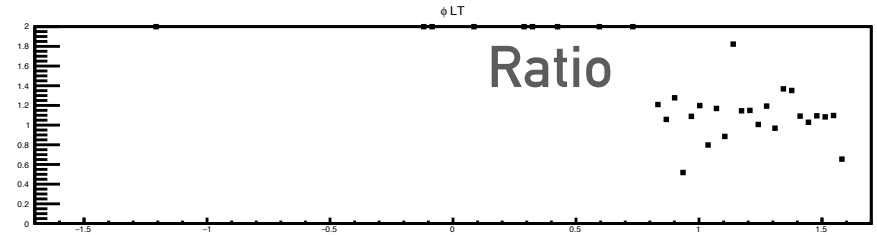


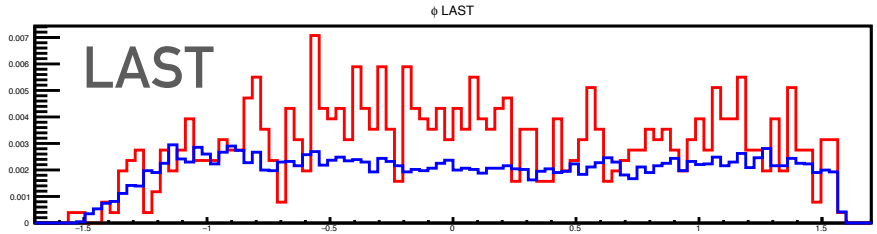


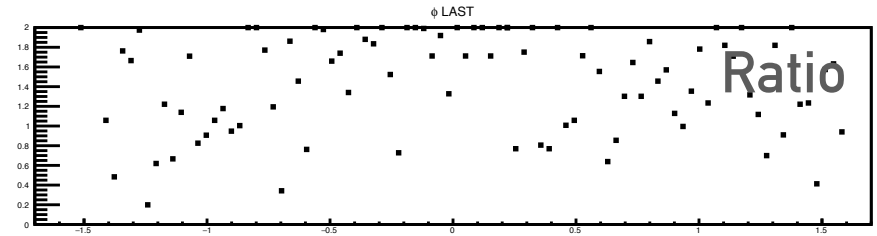










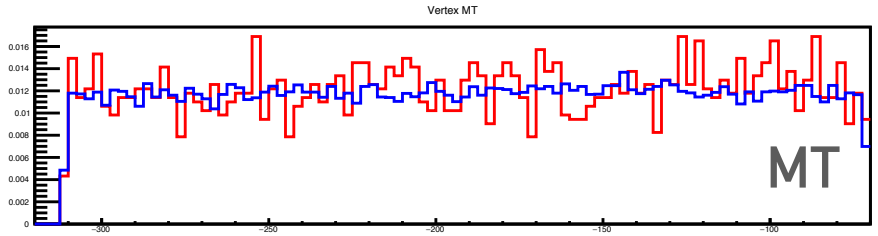


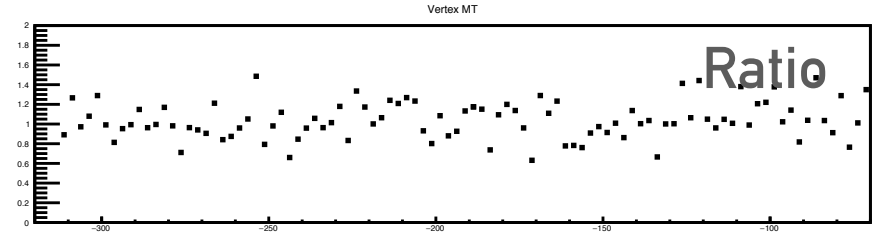
DJANGOH : COMPARISON RD/MC

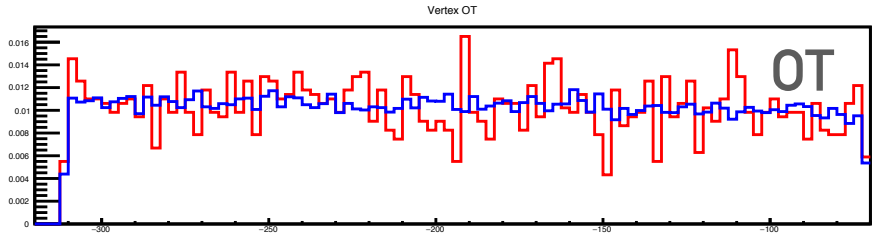
Vertex distribution (z)

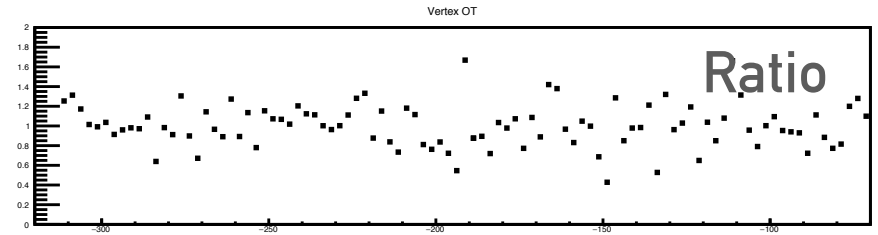
RD MC

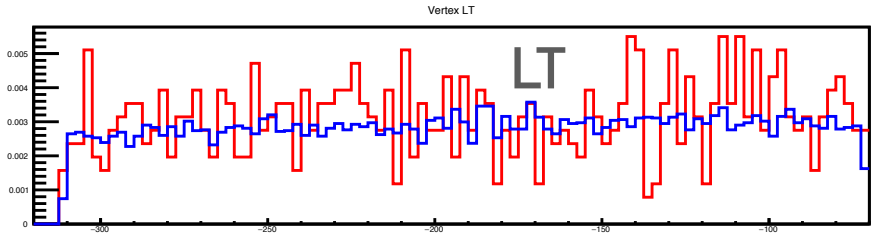
Normalized over OT events

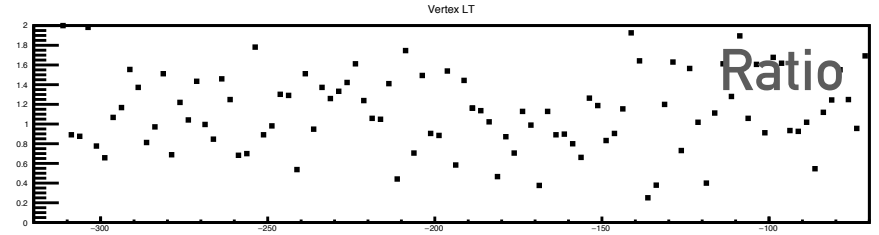


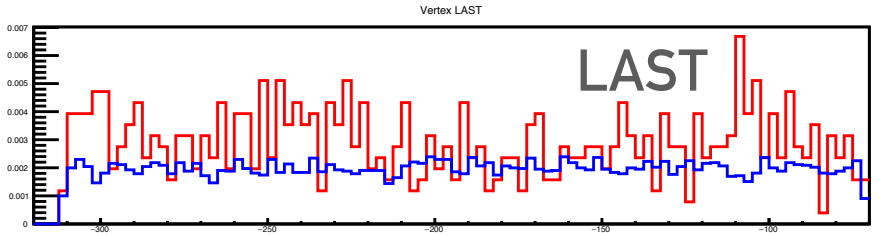


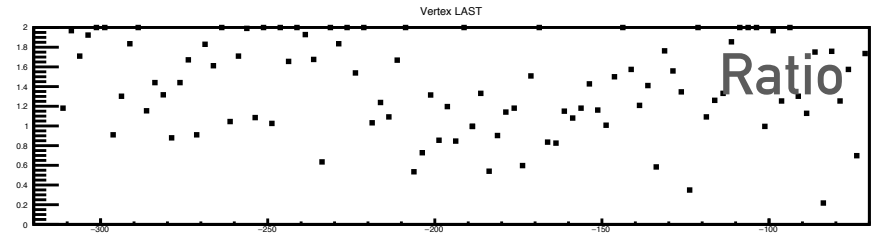










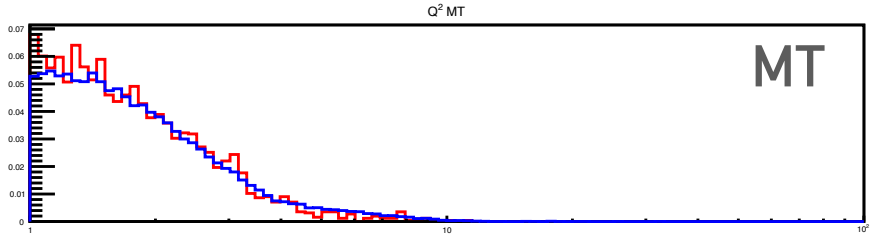


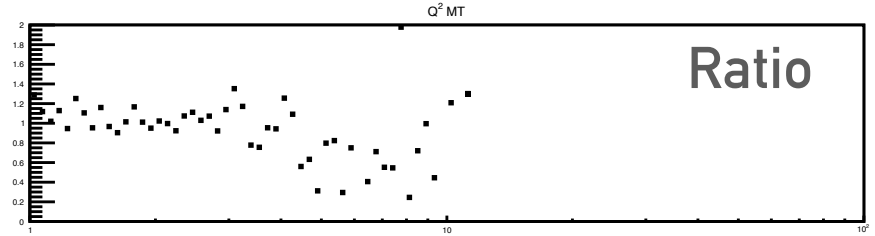
DJANGOH : COMPARISON RD/MC

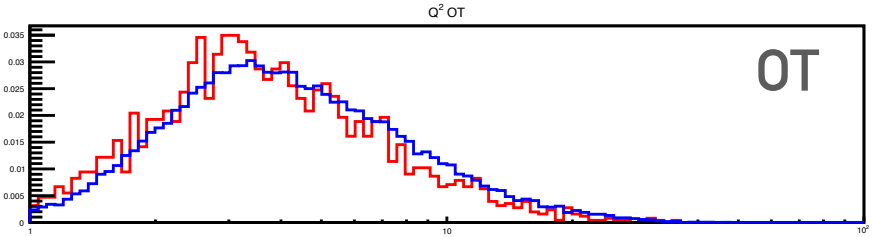
Q^2

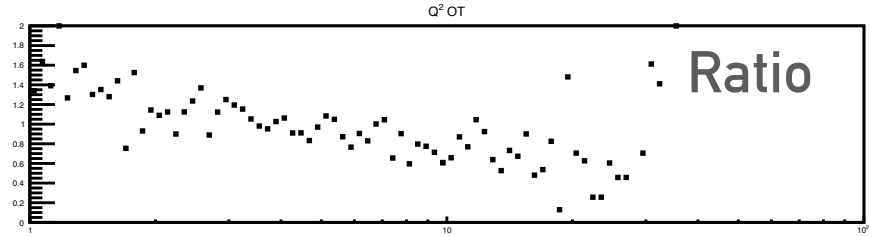
RD MC

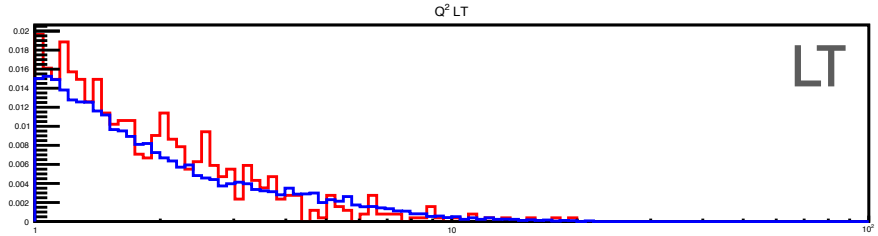
Normalized over OT events

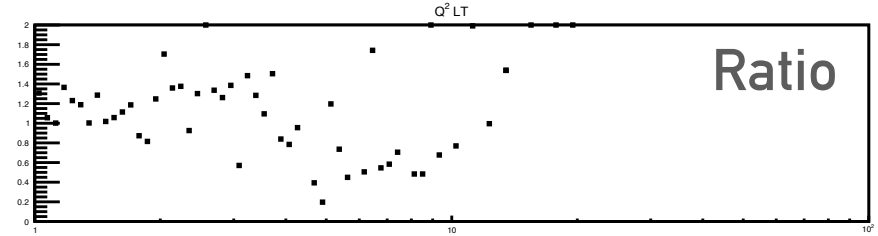


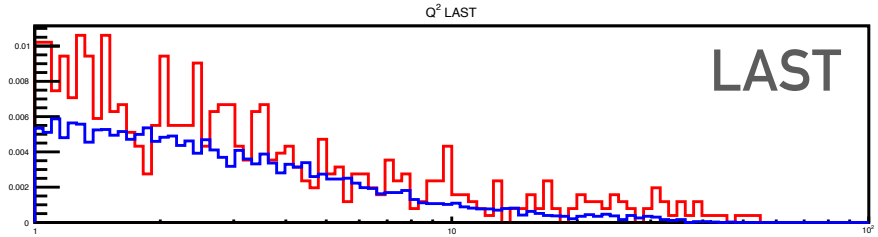


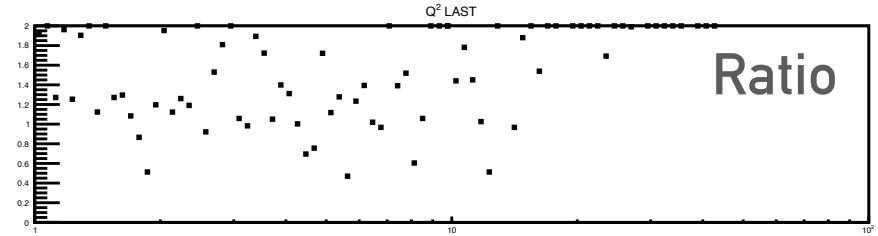










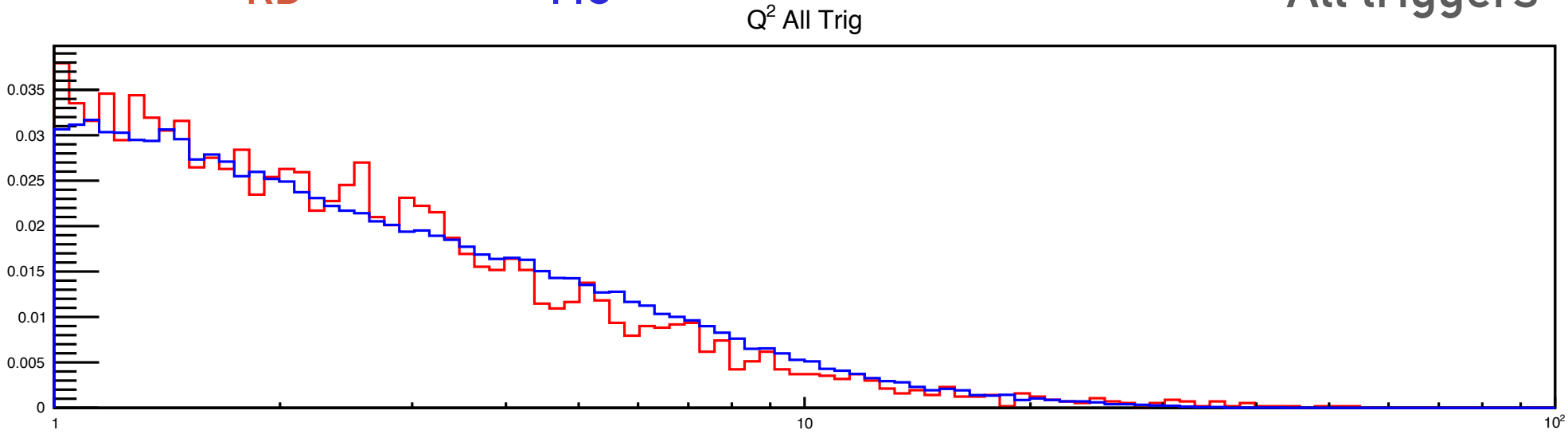


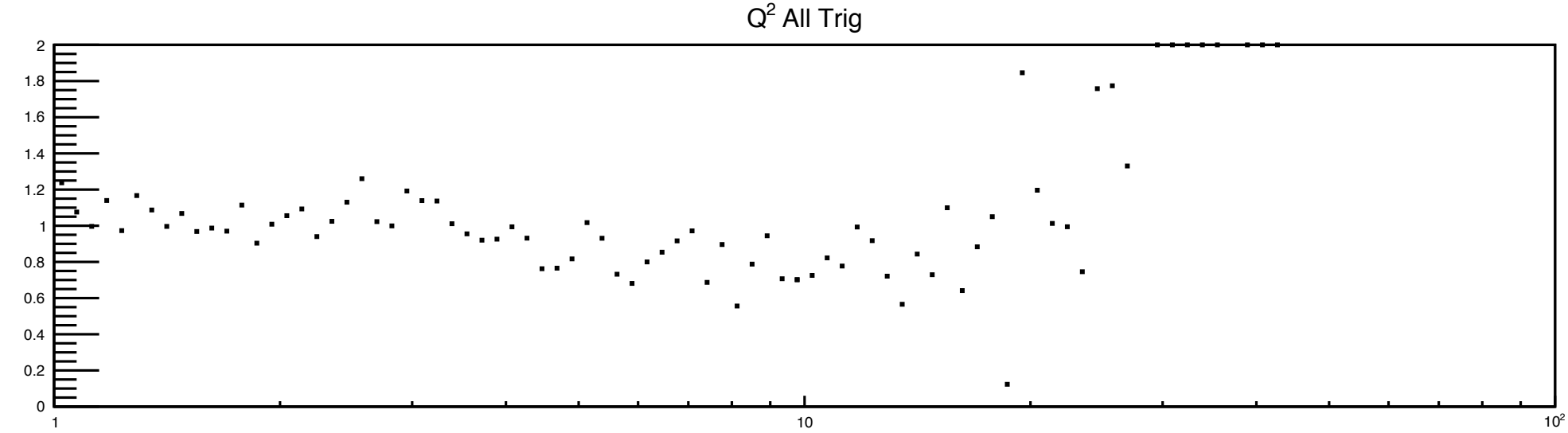
DJANGOH : COMPARISON RD/MC

Q^2

RD MC

All triggers



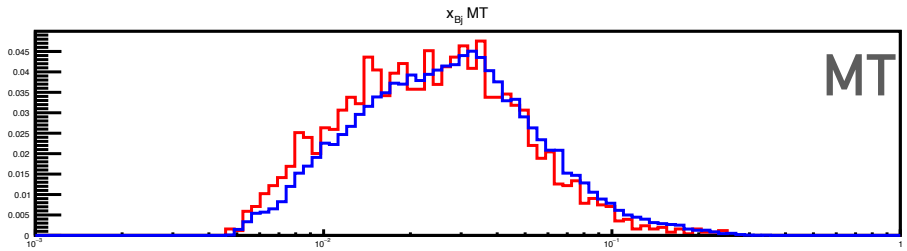


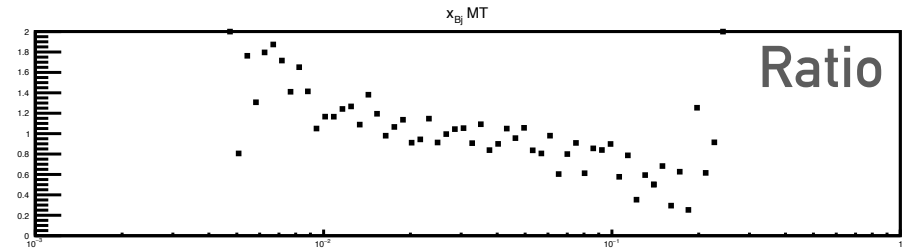
DJANGOH : COMPARISON RD/MC

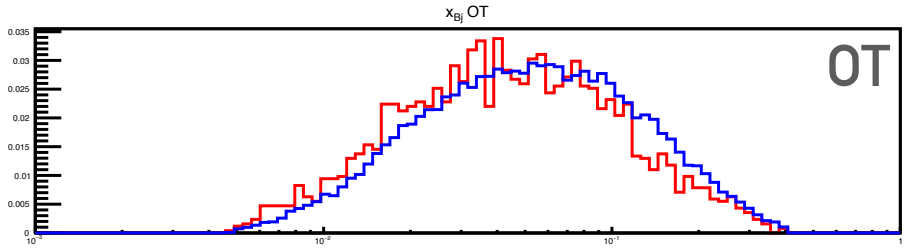
x_{Bj}

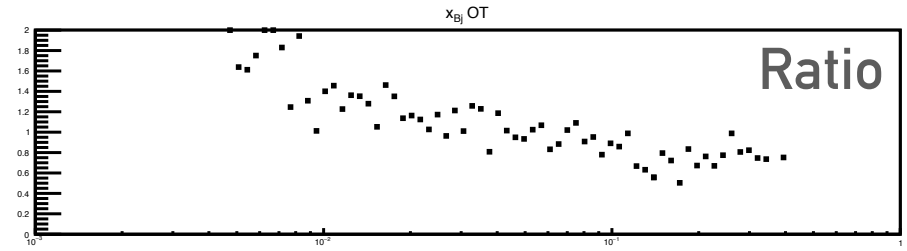
RD MC

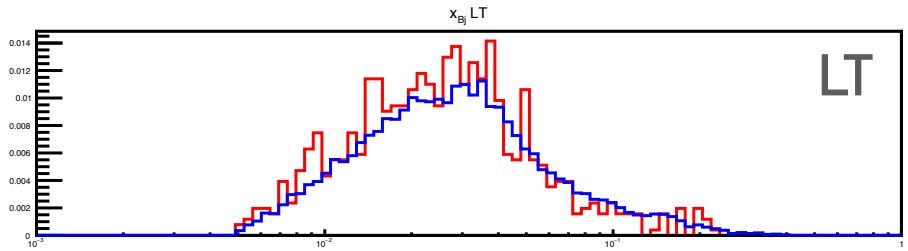
Normalized over OT events

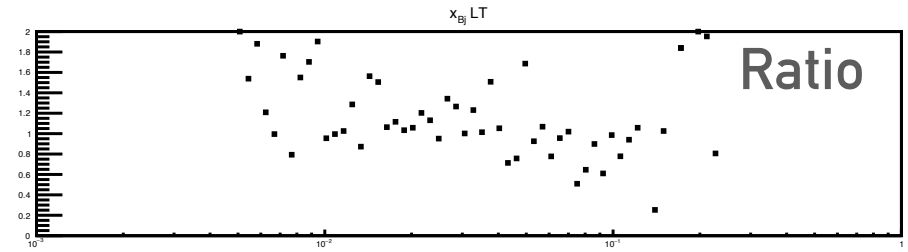


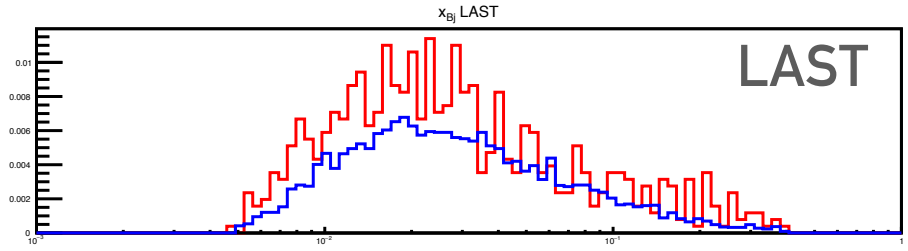


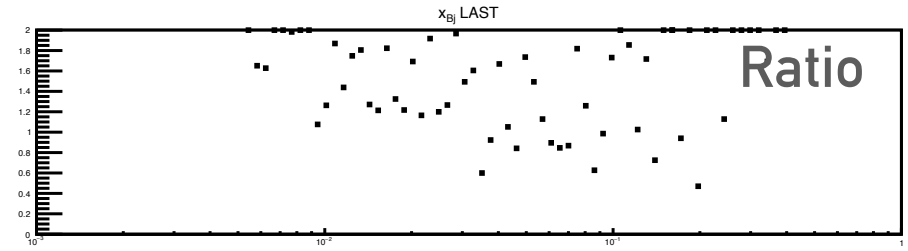










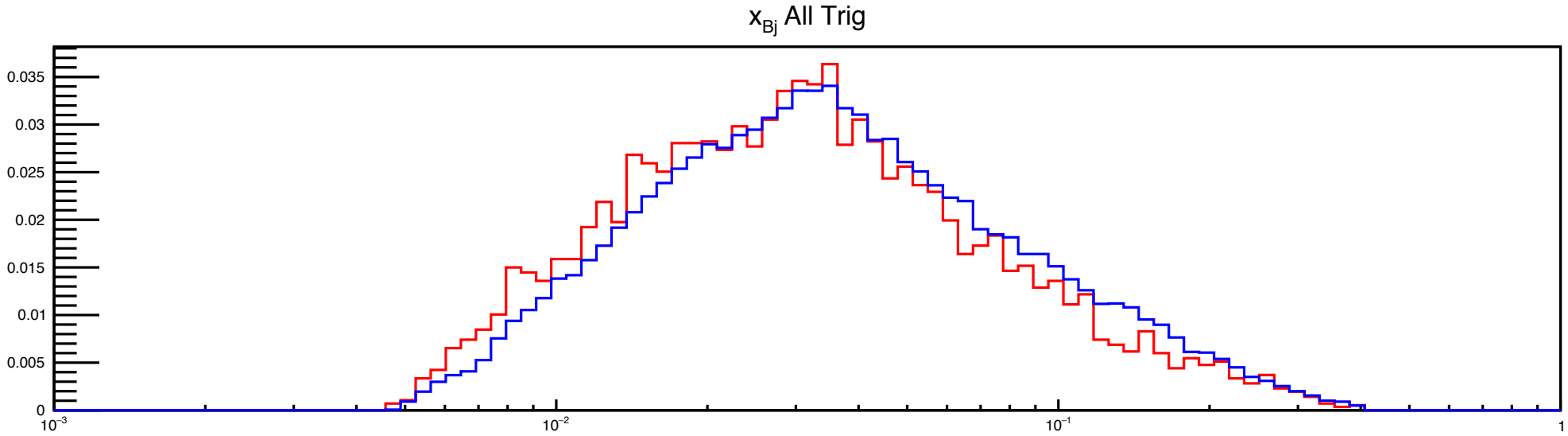


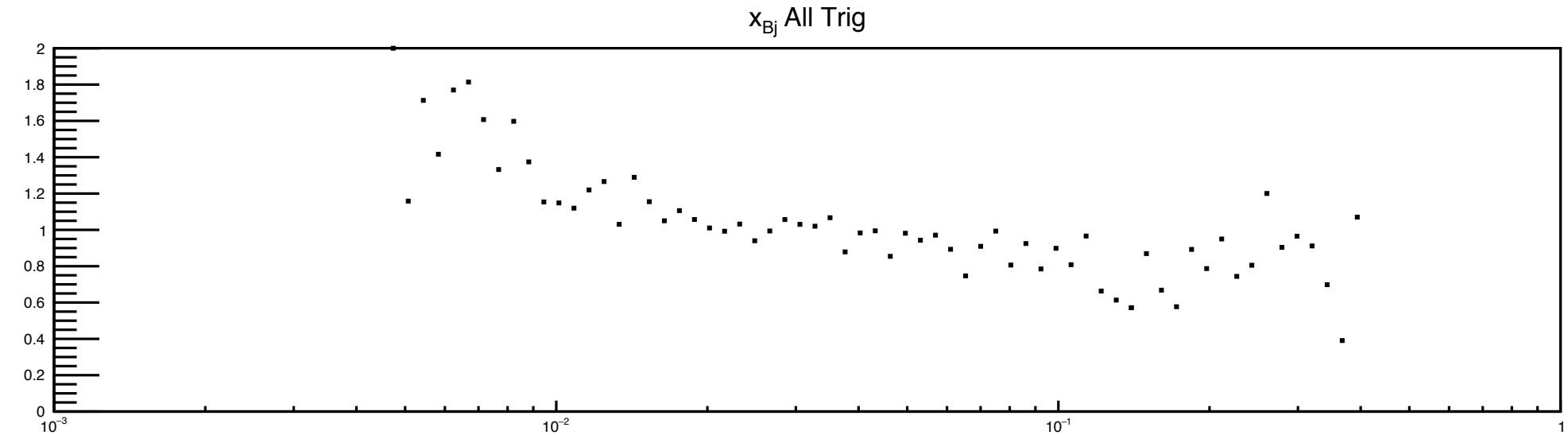
DJANGOH : COMPARISON RD/MC

x_{Bj}

RD MC

All triggers



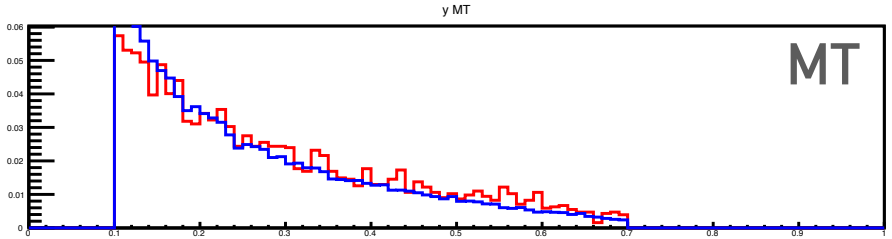


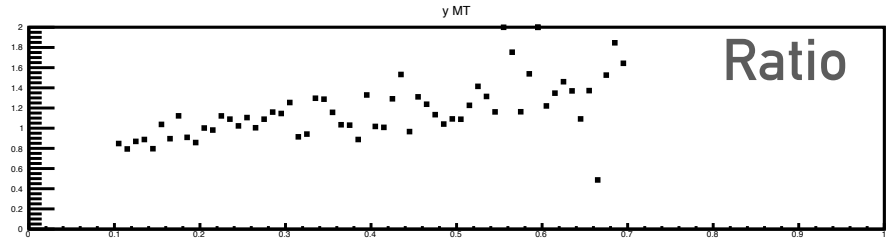
DJANGOH : COMPARISON RD/MC

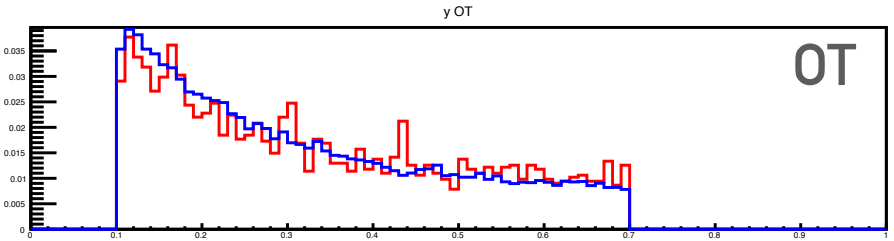
y

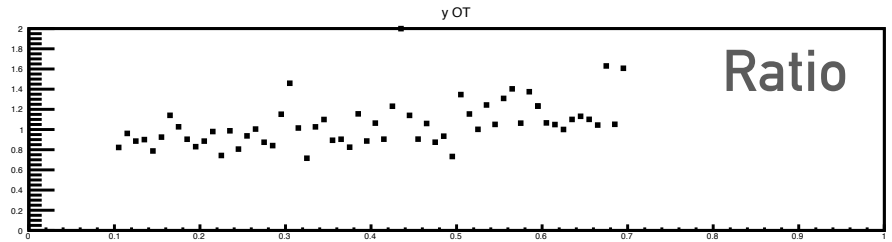
RD MC

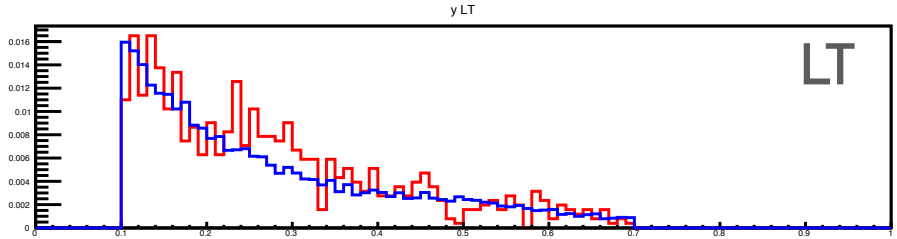
Normalized over OT events

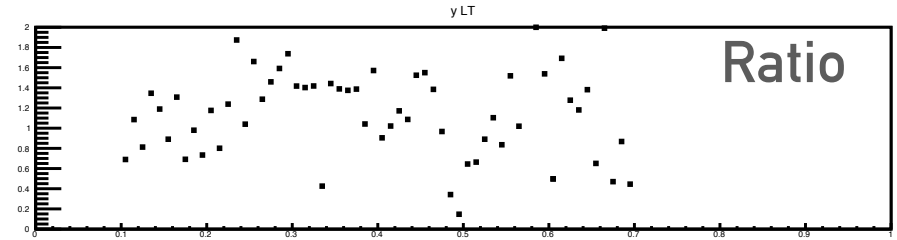


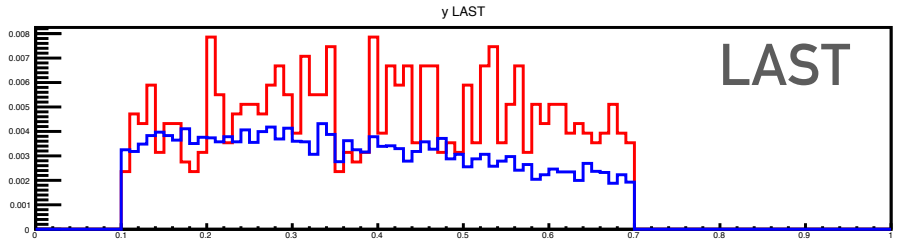


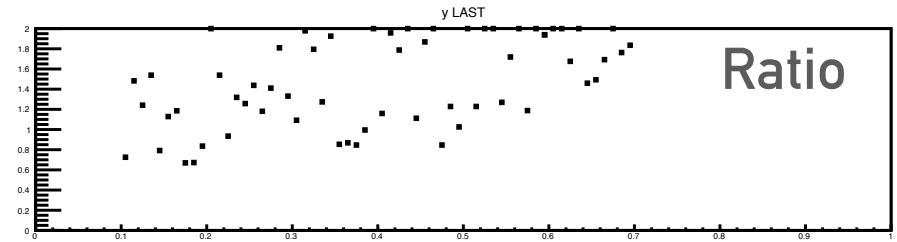










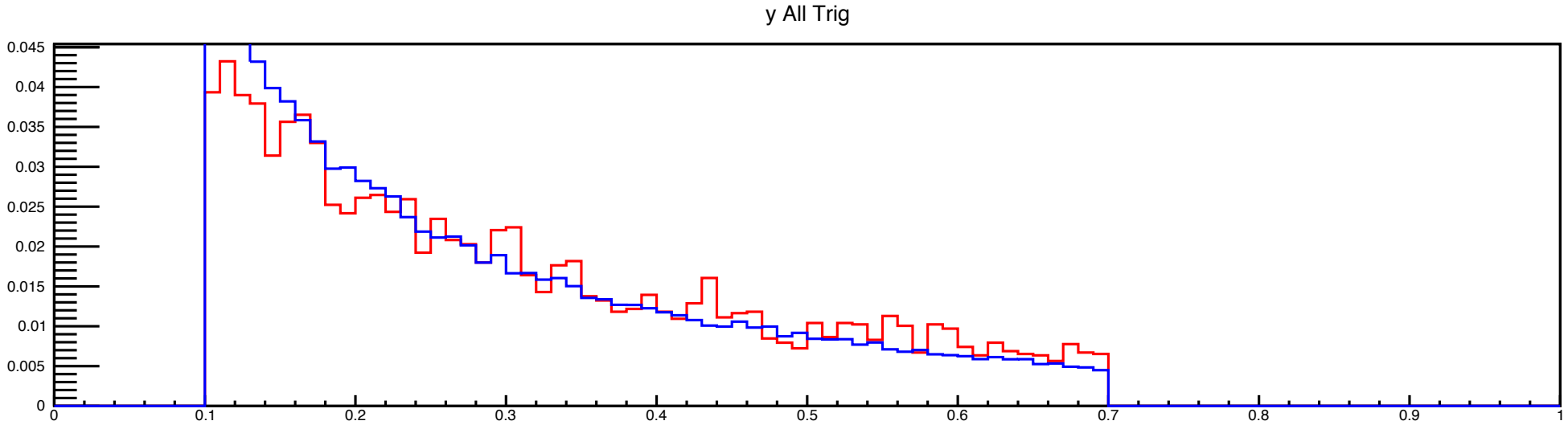


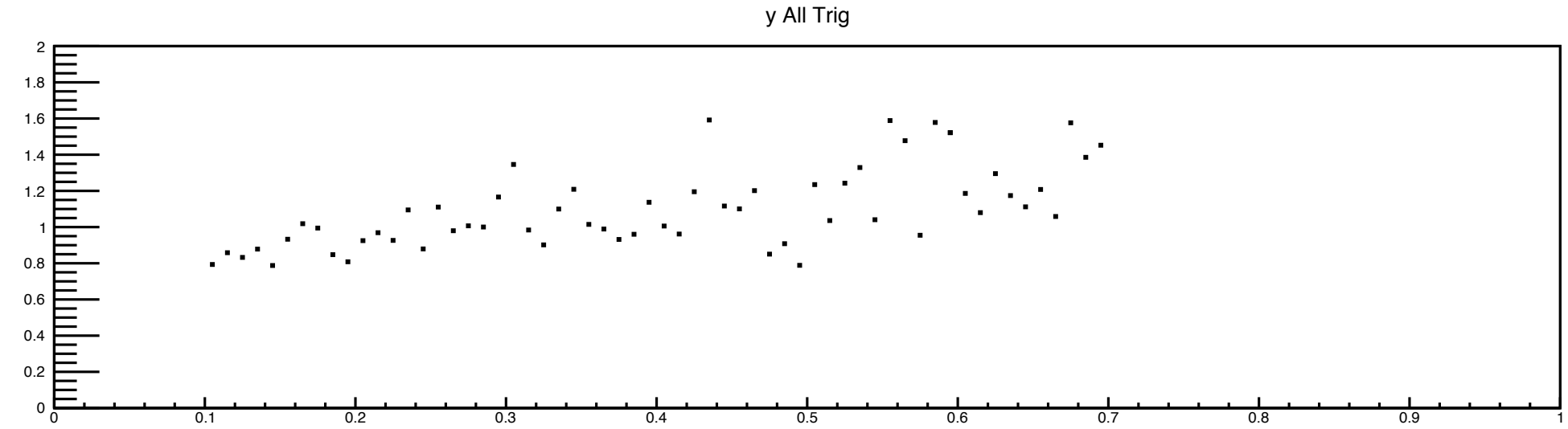
DJANGOH : COMPARISON RD/MC

y

RD MC

All triggers



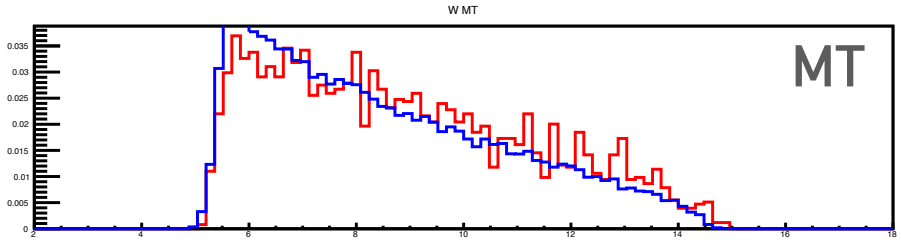


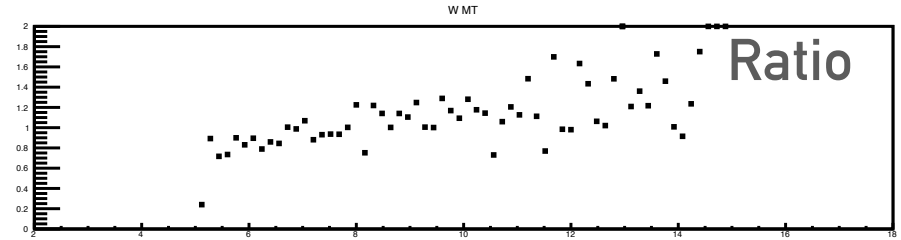
DJANGOH : COMPARISON RD/MC

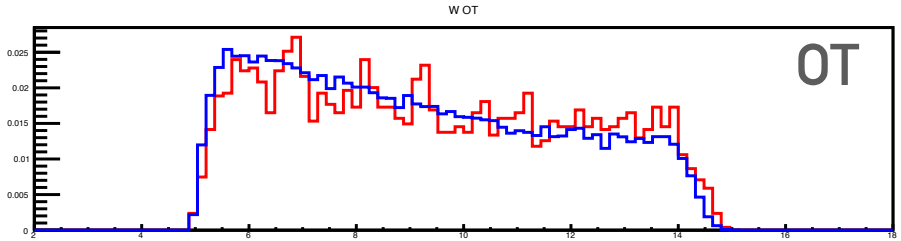
W

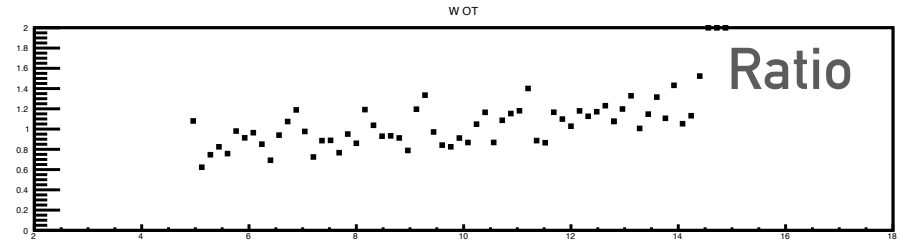
RD MC

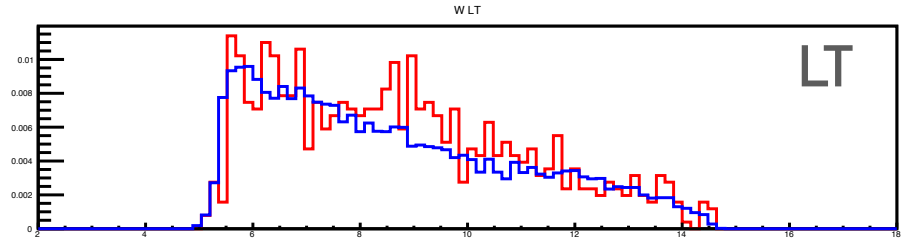
Normalized over OT events

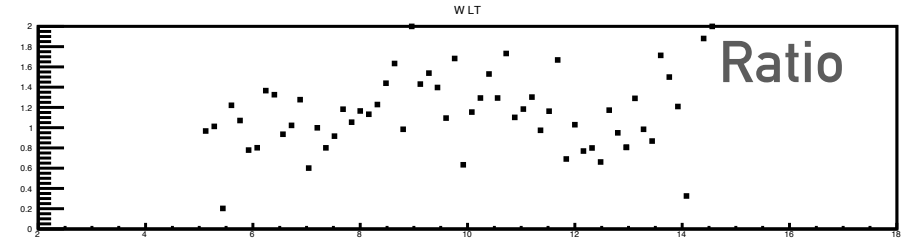


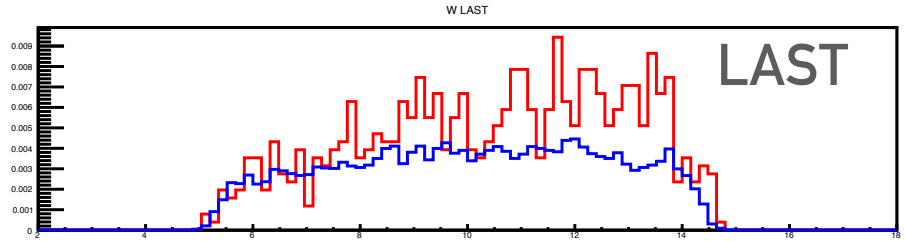


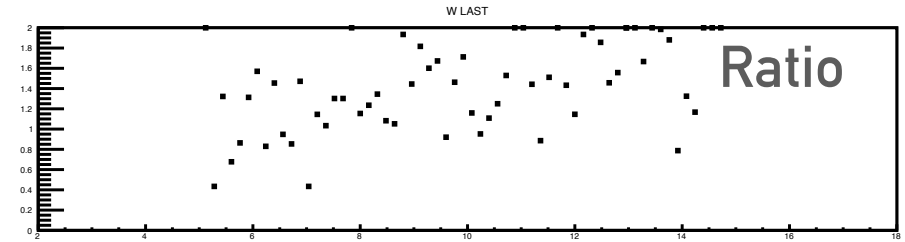










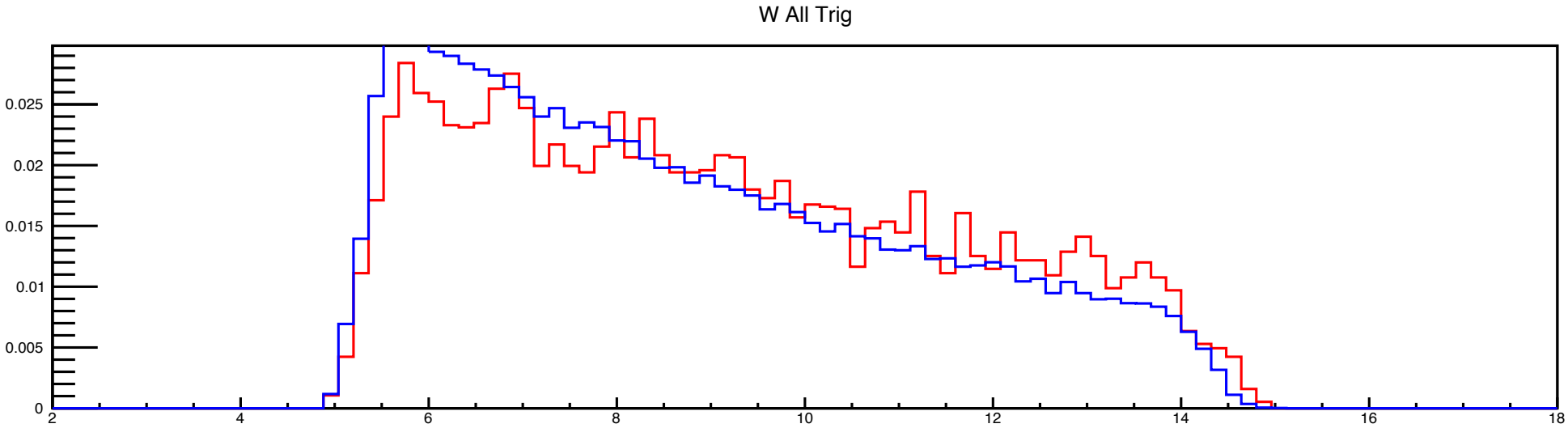


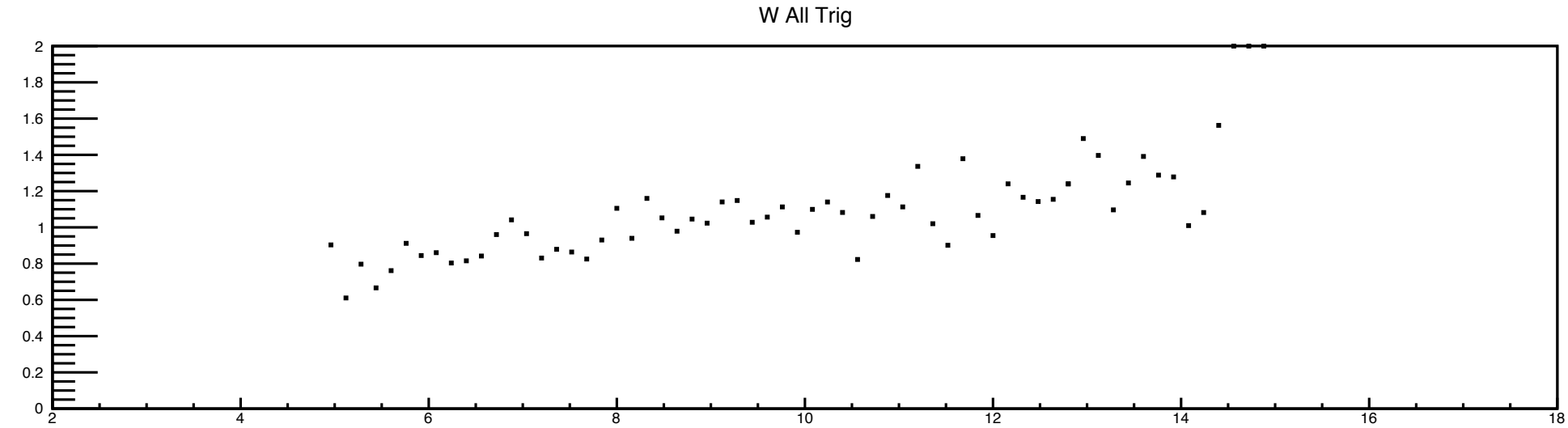
DJANGOH : COMPARISON RD/MC

W

RD MC

All triggers

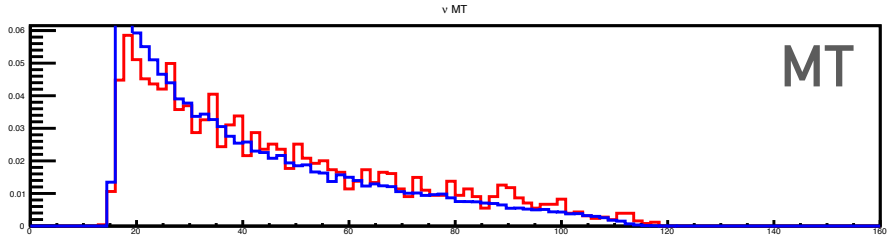


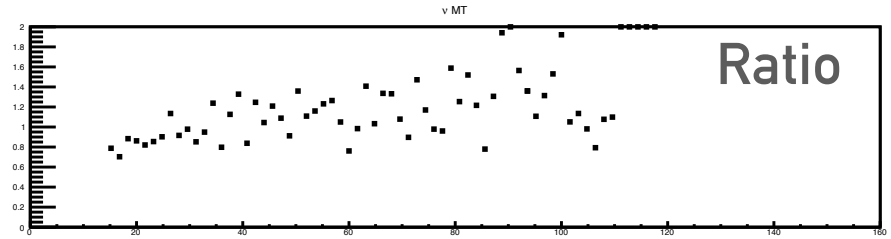


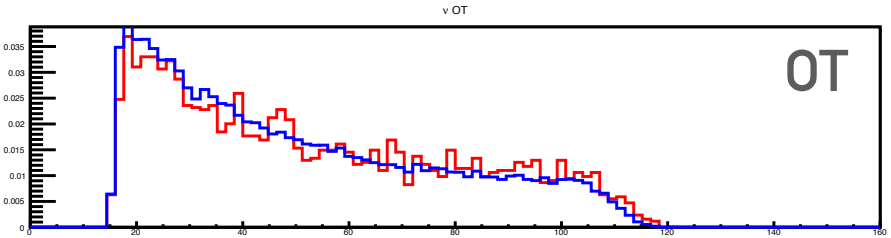
DJANGOH : COMPARISON RD/MC

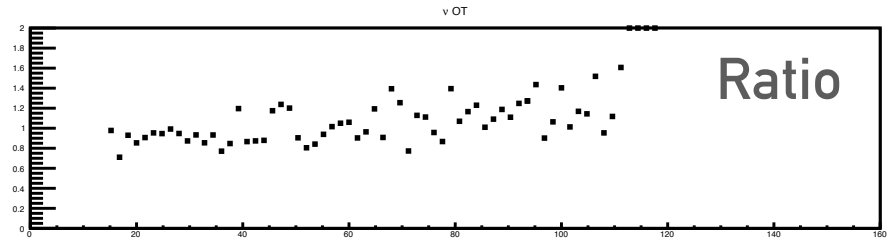
RD MC

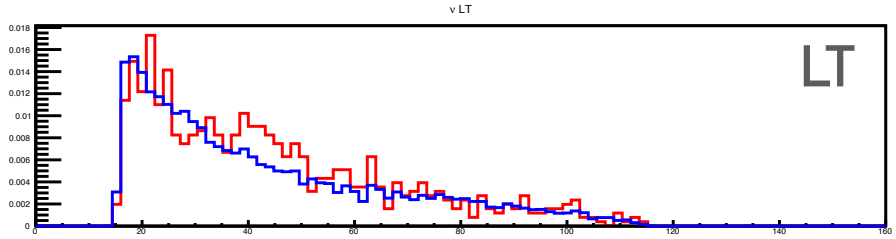
Normalized over OT events

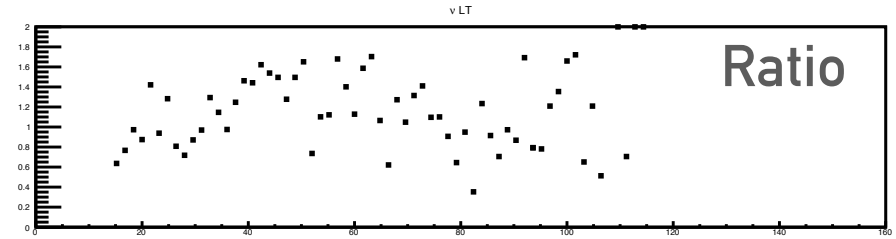


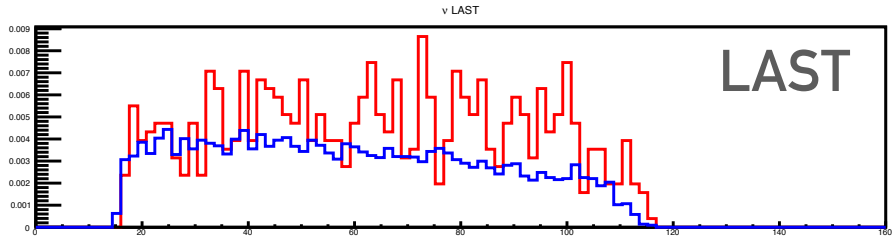


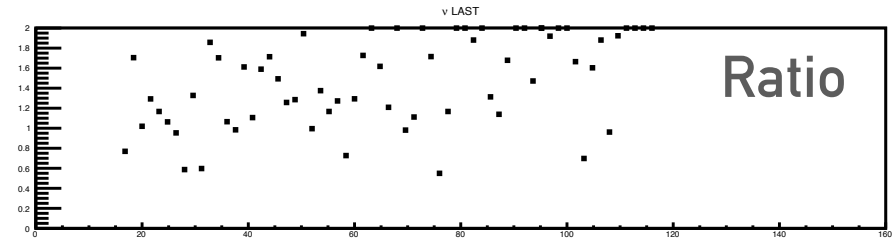






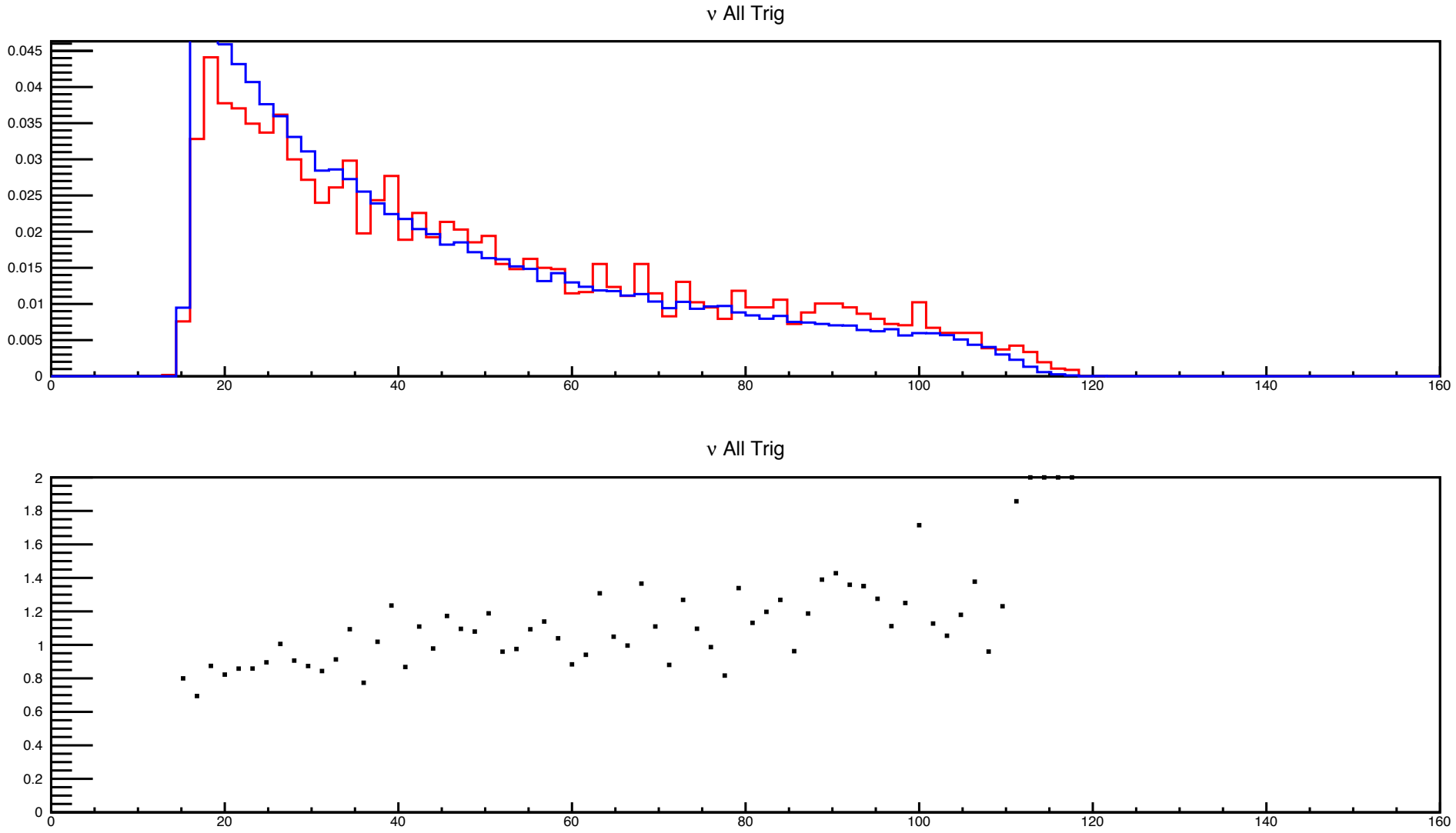






DJANGOH : COMPARISON RD/MC

RD MC All triggers

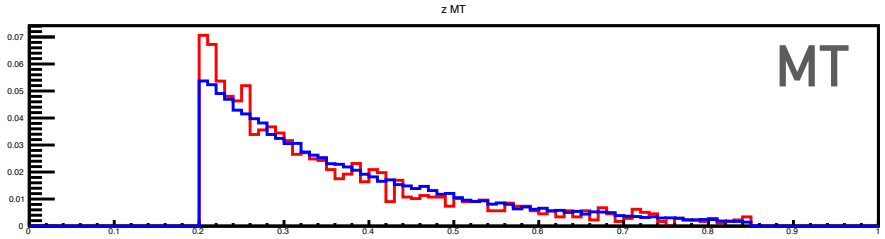


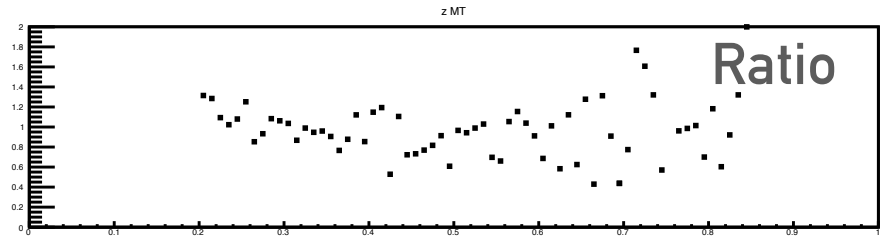
DJANGOH : COMPARISON RD/MC

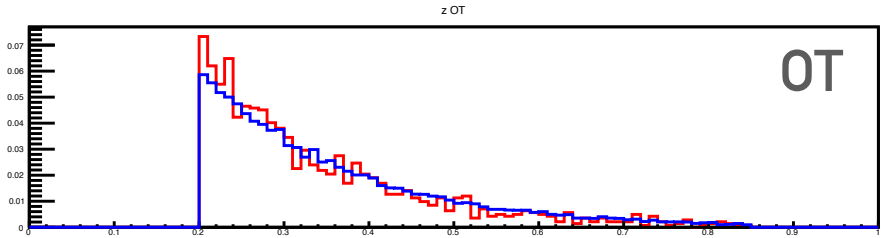
z

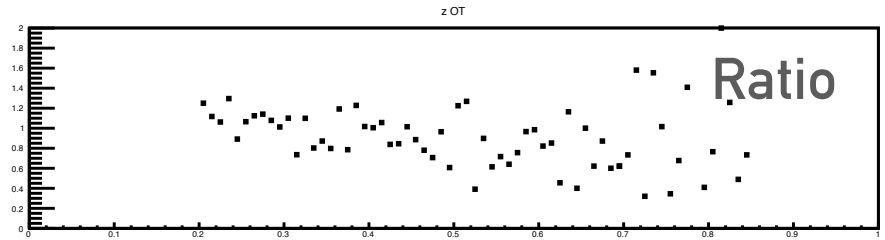
RD MC

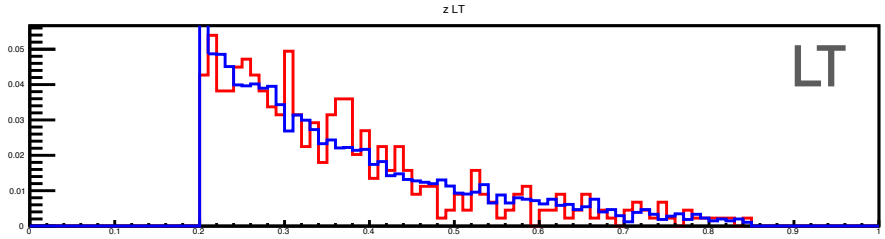
Normalized over OT events

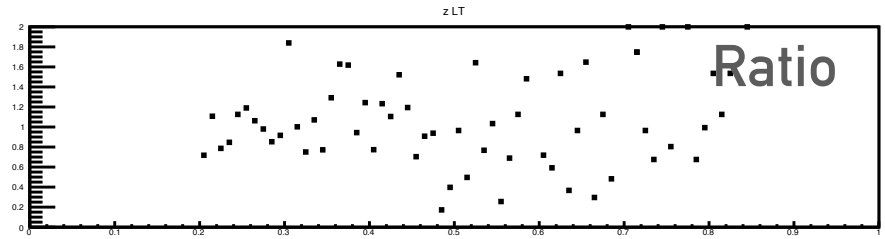


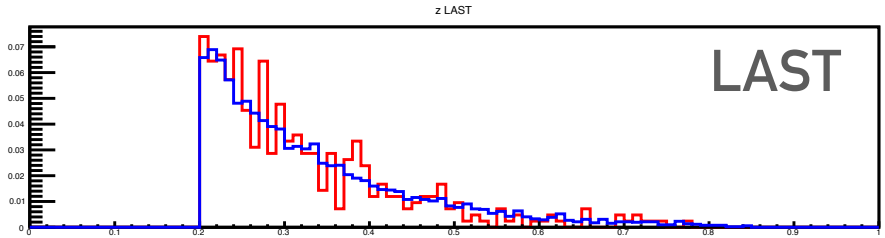


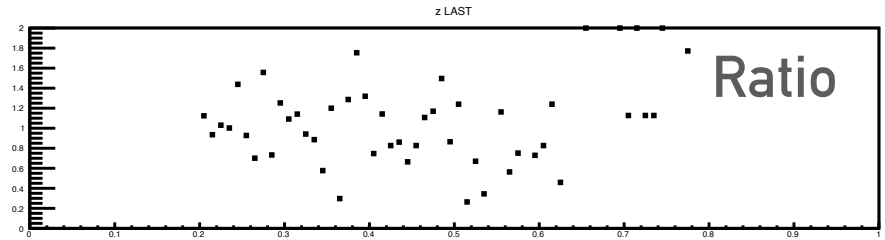










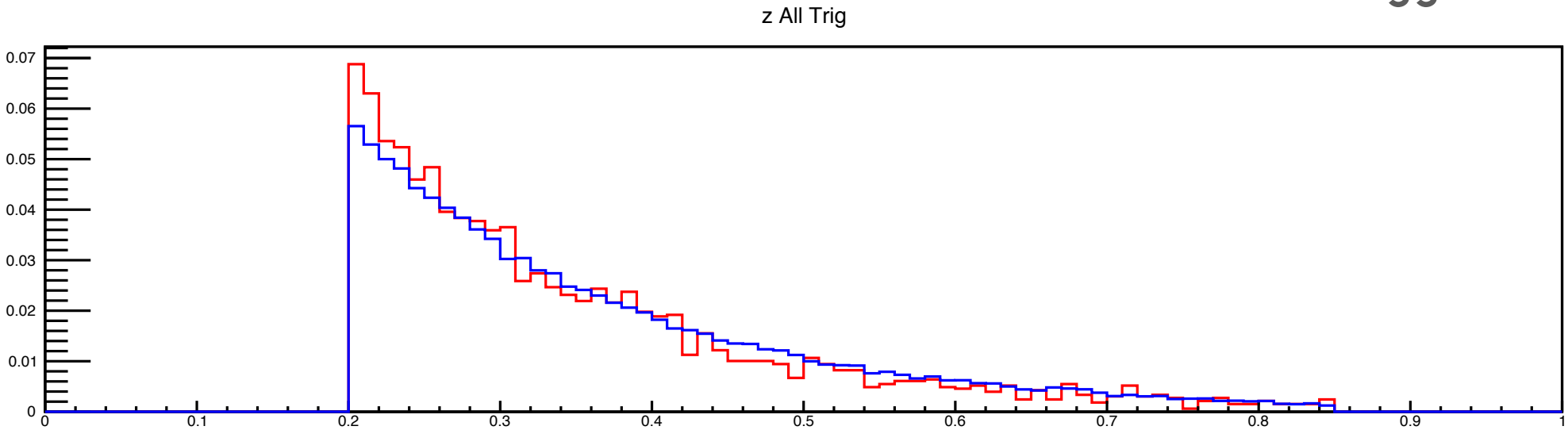


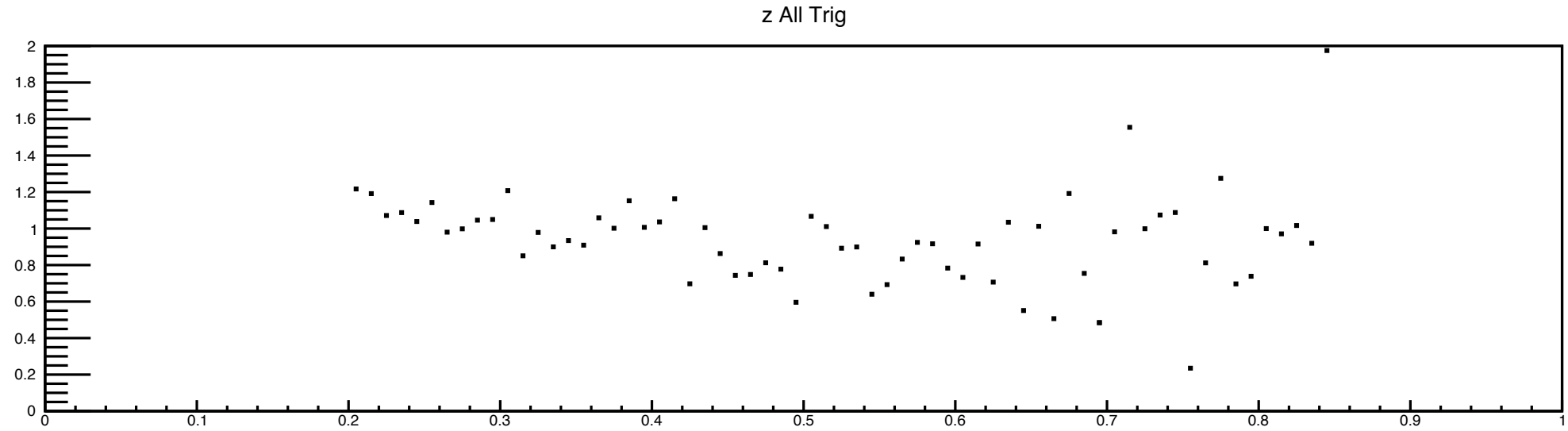
DJANGOH : COMPARISON RD/MC

z

RD MC

All triggers





DJANGOH : COMPARISON RD/MC

Take home message :

- Overall comparison quite good between RD and MC w/ Djangoh for P09.
- Trigger by trigger : quite good overall except for LAST trigger constantly off. Removing LAST does not change overall results.
- Discrepancies on Q^2 OT and x_{Bj} MT/OT.
- Need more periods to have a more accurate comparison.