

low mass dimuon production in p-Pb: preliminary investigations

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- Datas period: LHC12d,e and f
- Triggers selection
 - Data: MUL and MLL
 - Mixing: MLL
- Centrality estimator: V0M used for test presented

$$N_{\text{bkg}}(M) = R(M) \times \sqrt{N_{\text{LSpp}}(M) \times N_{\text{LSmm}}(M)} \quad (1)$$

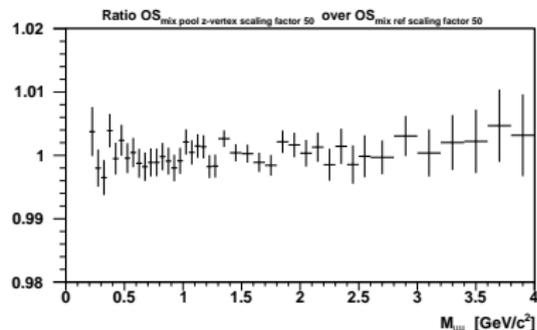
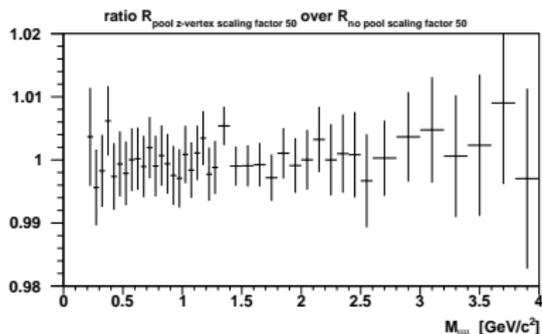
$$R(M) = \frac{N_{\text{OS}}^{\text{mix}}(M)}{\sqrt{N_{\text{LSpp}}^{\text{mix}}(M) \times N_{\text{LSmm}}^{\text{mix}}(M)}} \quad (2)$$

Strategy for mixing events

- Mixed events having same conditions → created various pools (in this case z-vertex and centrality)
- Check if good pool

Background subtraction

z-vertex pool

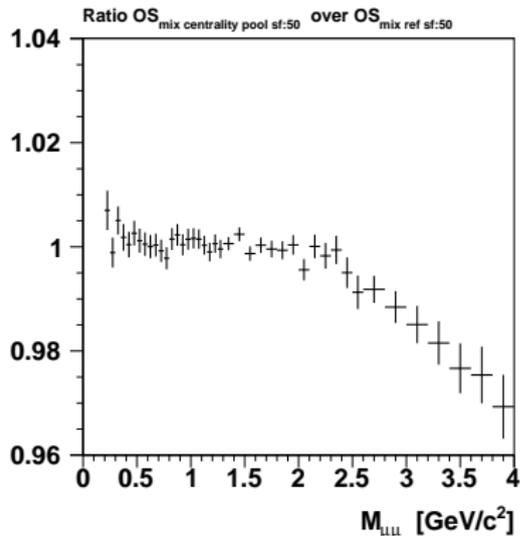
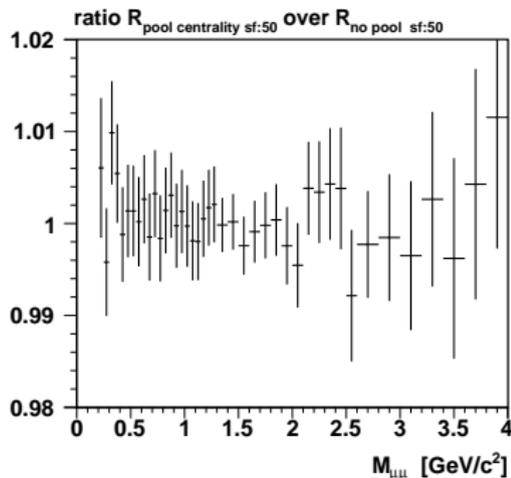


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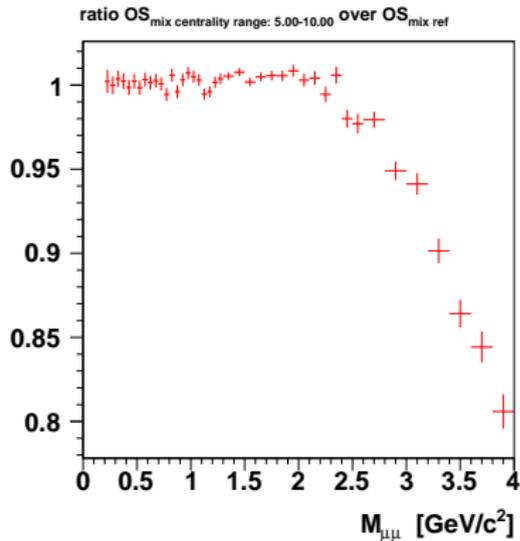
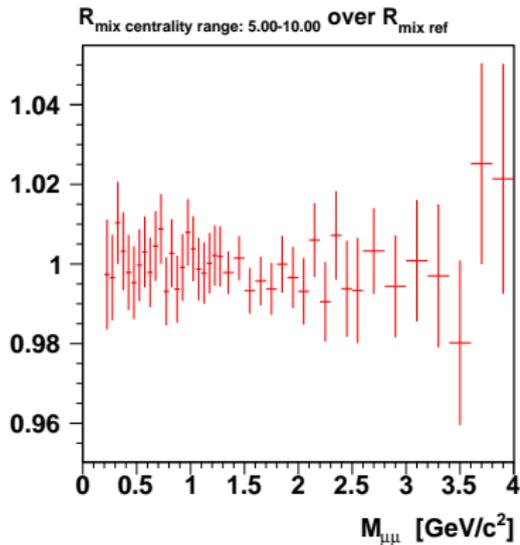
Background subtraction

centrality pool



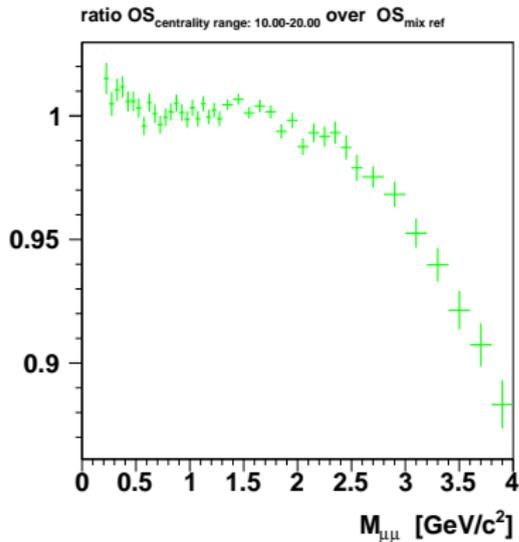
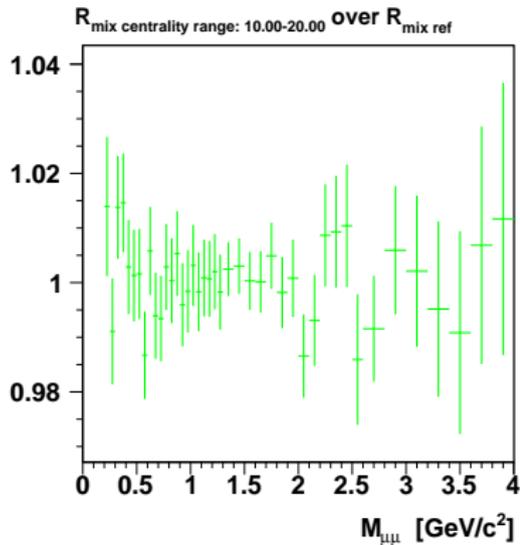
Background subtraction

centrality pool



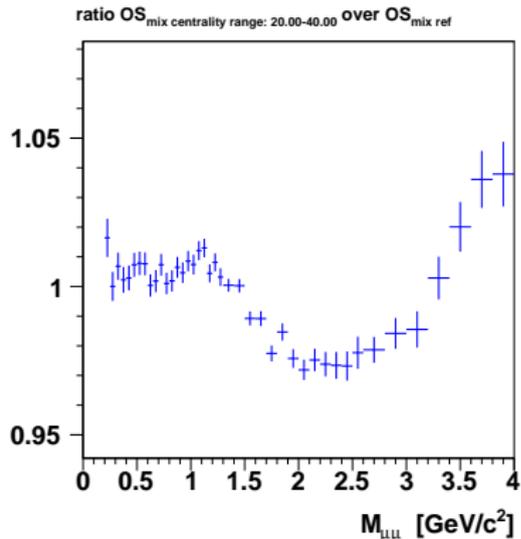
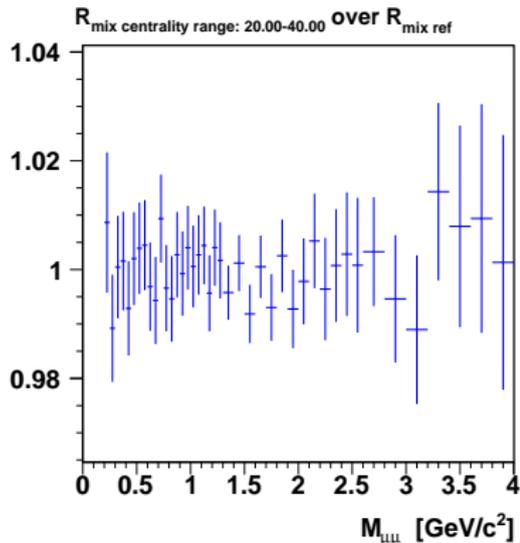
Background subtraction

centrality pool



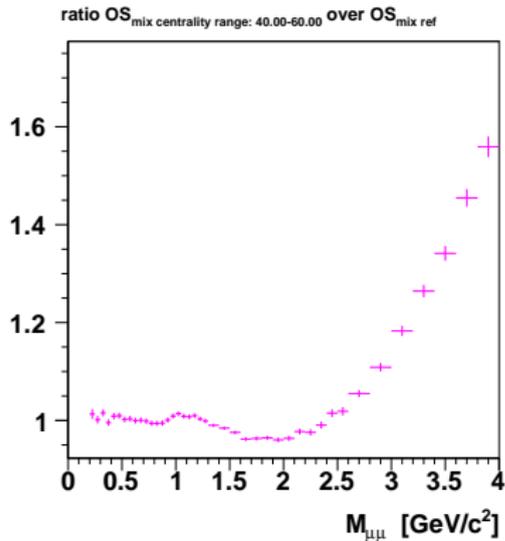
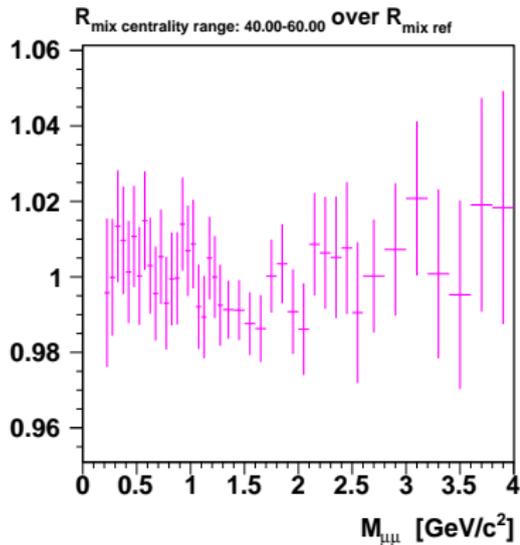
Background subtraction

centrality pool



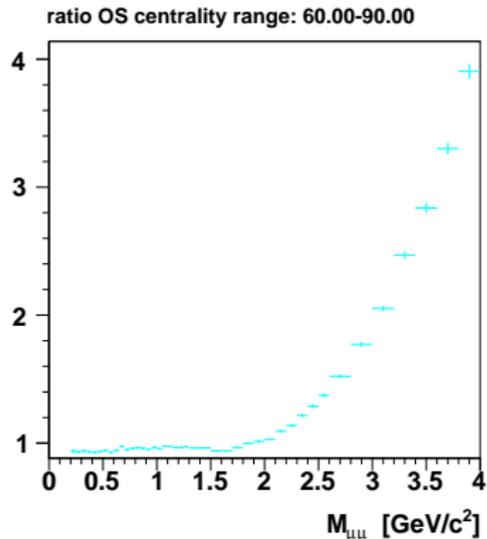
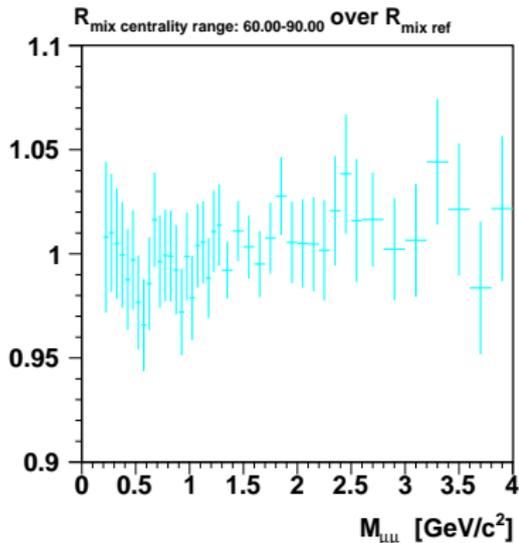
Background subtraction

centrality pool



Background subtraction

centrality pool



- MC productions for mass spectrum fitting