Subject: new UrQMD
Posted by Anna Senger on Mon, 09 Sep 2013 06:43:16 GMT
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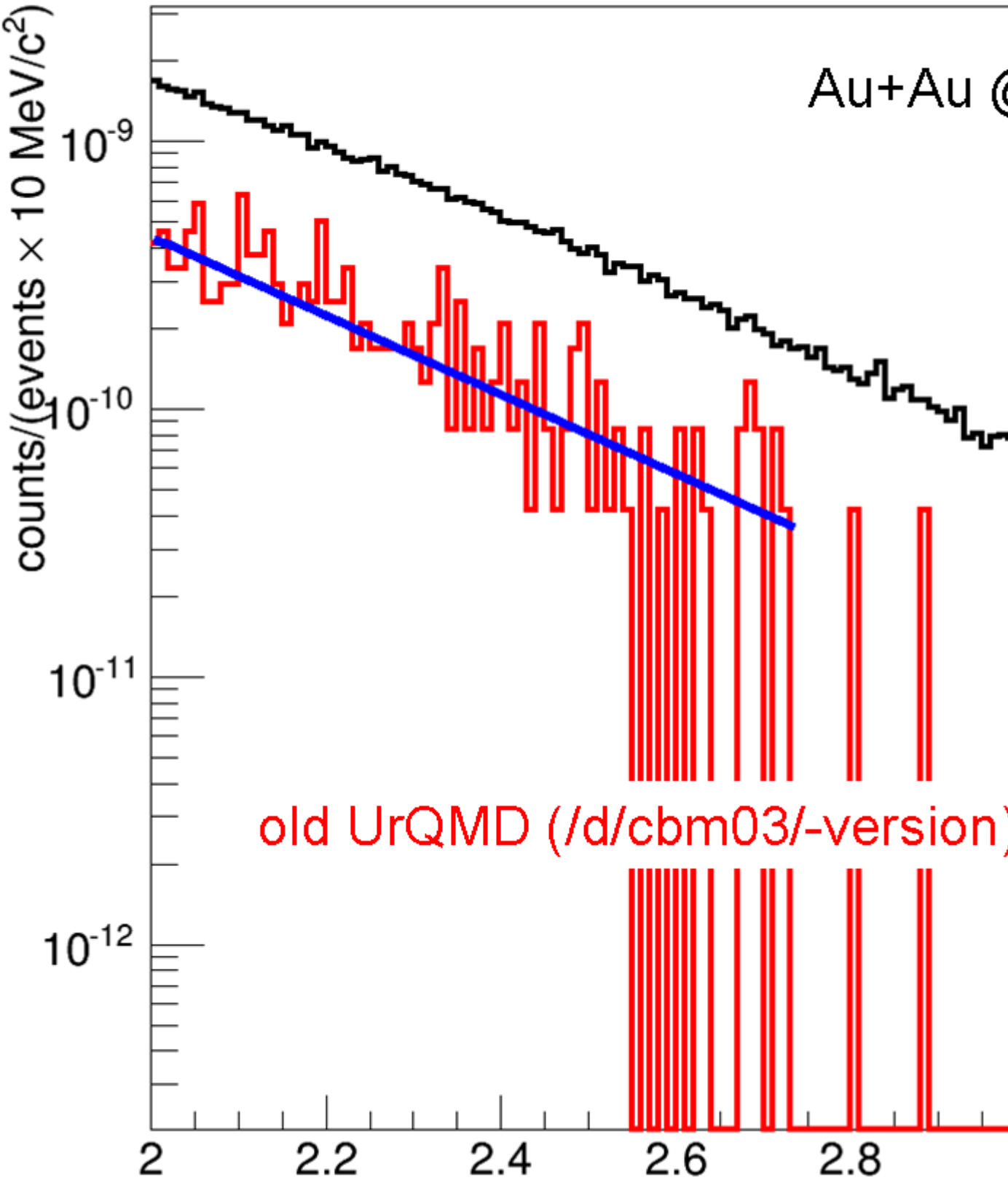
Hi. As you know Alla reported some problems with di-e J/psi due to new UrQMD. I checked this for di-mu J/psi. Last time I tried to produce MuCh start version for J/psi@10AGeV I can not understand, why it does not work anymore: S/B ratio = 0.02. I got early 0.8. Many thinks were changed: new more realistic STS, clustering in MuCh etc. But... I found that background is increased in new UrQMD too ! OK, it is really good to understand the problem. We need to live with that

File Attachments

1) invM_old_new_UrQMD.png, downloaded 1173 times


Au+Au @
counts/(events × 10 MeV/c²)
10⁻⁹
10⁻¹⁰
10⁻¹¹
10⁻¹²
old UrQMD (/d/cbm03/-version)
2
2.2
2.4
2.6
2.8

Subject: Re: new UrQMD
Posted by Volker Friese on Wed, 18 Sep 2013 08:10:43 GMT
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Dear Anna,

so what you see is very similar to what Alla observes in the di-electron channel: an increase of the combinatorial background by a factor of about 4.

However, this cannot explain your S/B's going down from 0.8 to 0.02 (i.e., by a factor of 40). If that holds true, there must be an additional source of reduction, which we should understand.