Subject: Re: Delta from Krivoruchenko
Posted by Tetyana Galatyuk on Mon, 24 Oct 2011 09:22:03 GMT
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Dear all,

to complete the story, I have prepared
few plots for p+p at Ekin=1.25 GeV.

Figure bellow shows the mass dependent
branching ratio of Delta estimated by dividing
pp->pDelta+->pppi0 by pp->pDelta+->ppe+e-

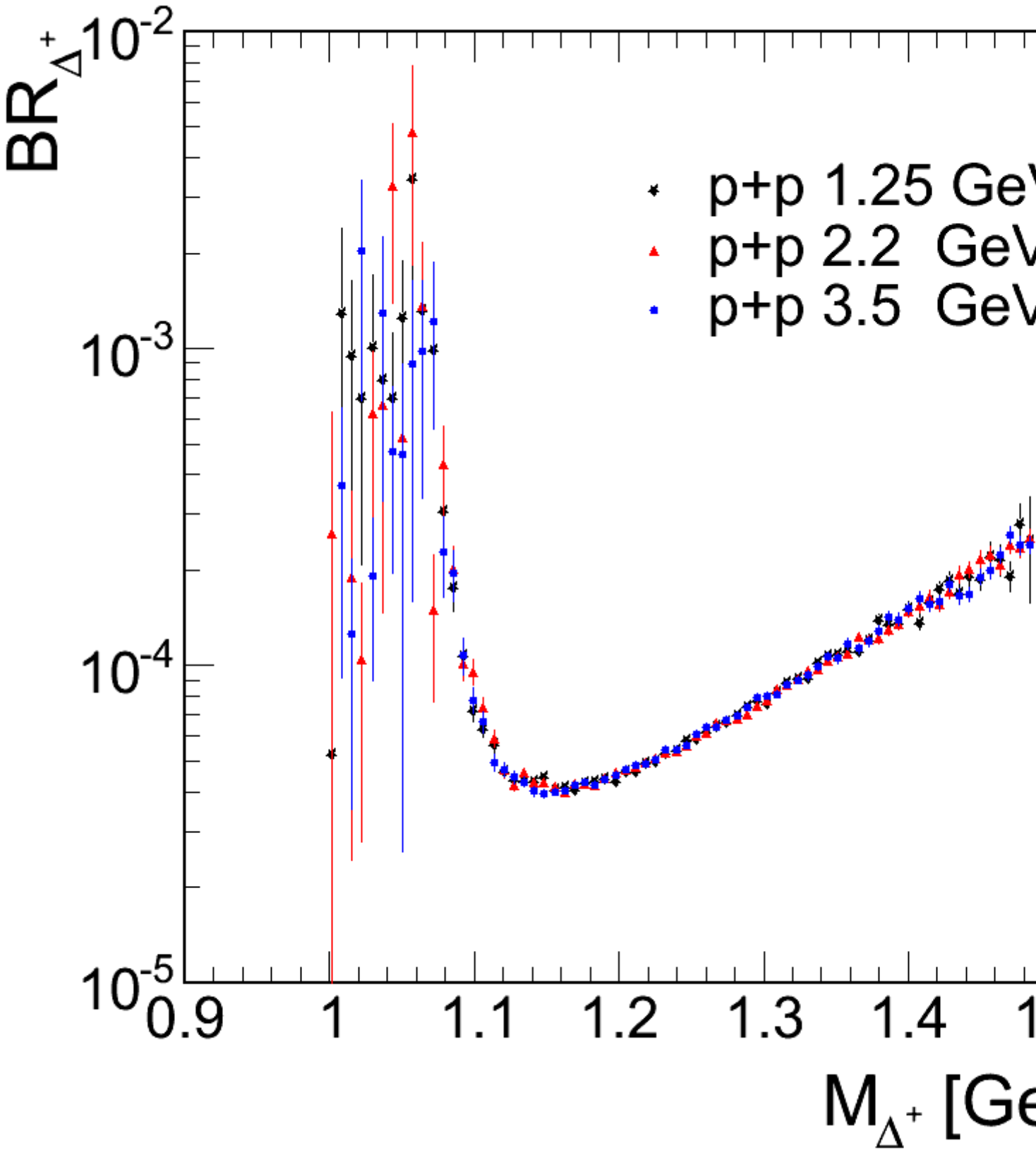
The next point which was checked concerns the following issue:
Ingo wrote:
>please update to v5.38.2. In the previous version,
>the Krivoruchenko model was not enabled by using
>the following command:
>makeDistributionManager()->Exec("dalitz_mod: krivoruchenko");

Bellow you can find a figure which shows the
Delta+ mass distribution in channel pp->pD+->ppe+e-
for two versions of Pluto. Indeed, the Krivoruchenko
model was not enable in the Pluto versions < v5.38.2!

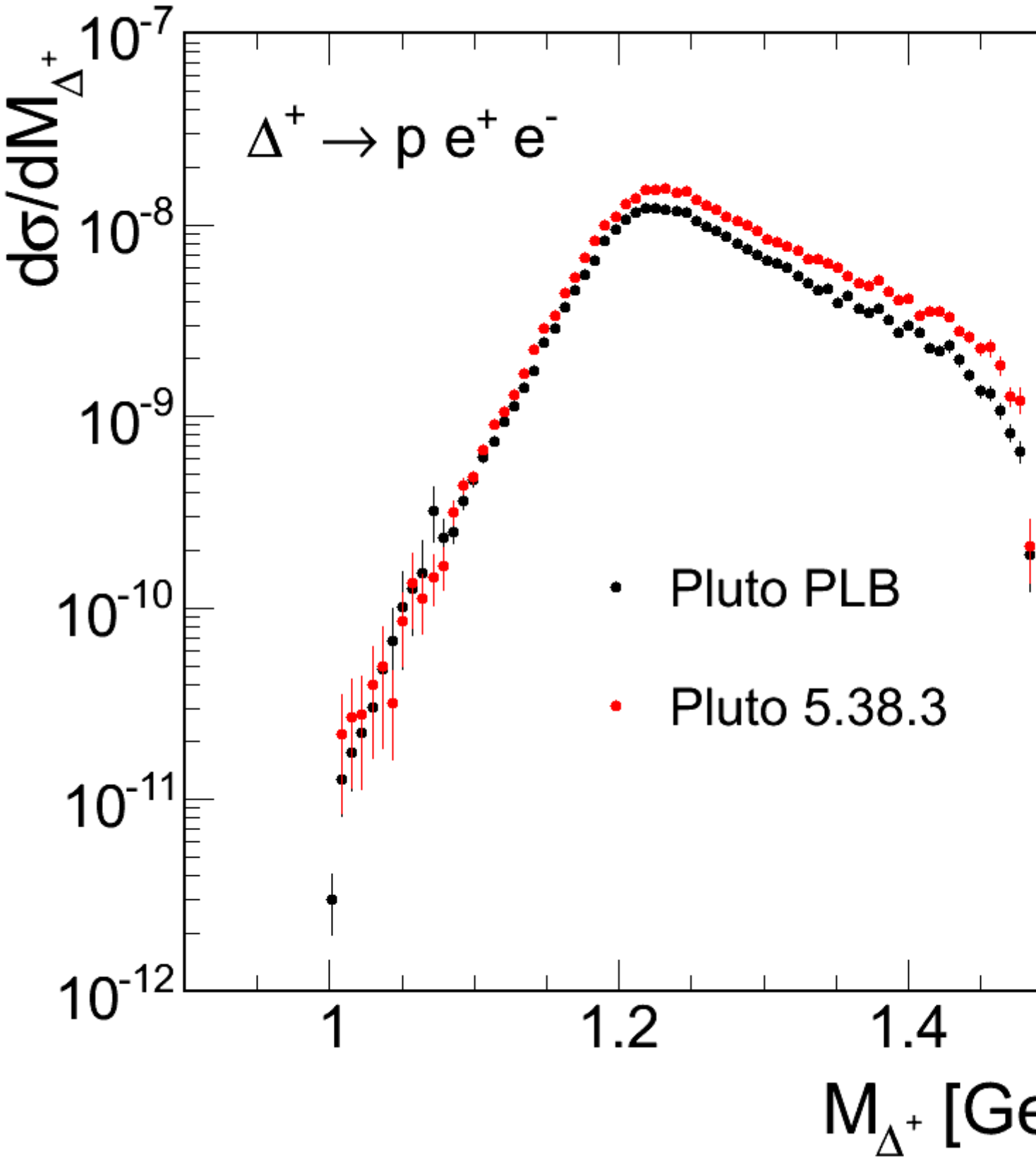
Finally, you can see the influence on invariant
e+e- mass spectrum:

File Attachments

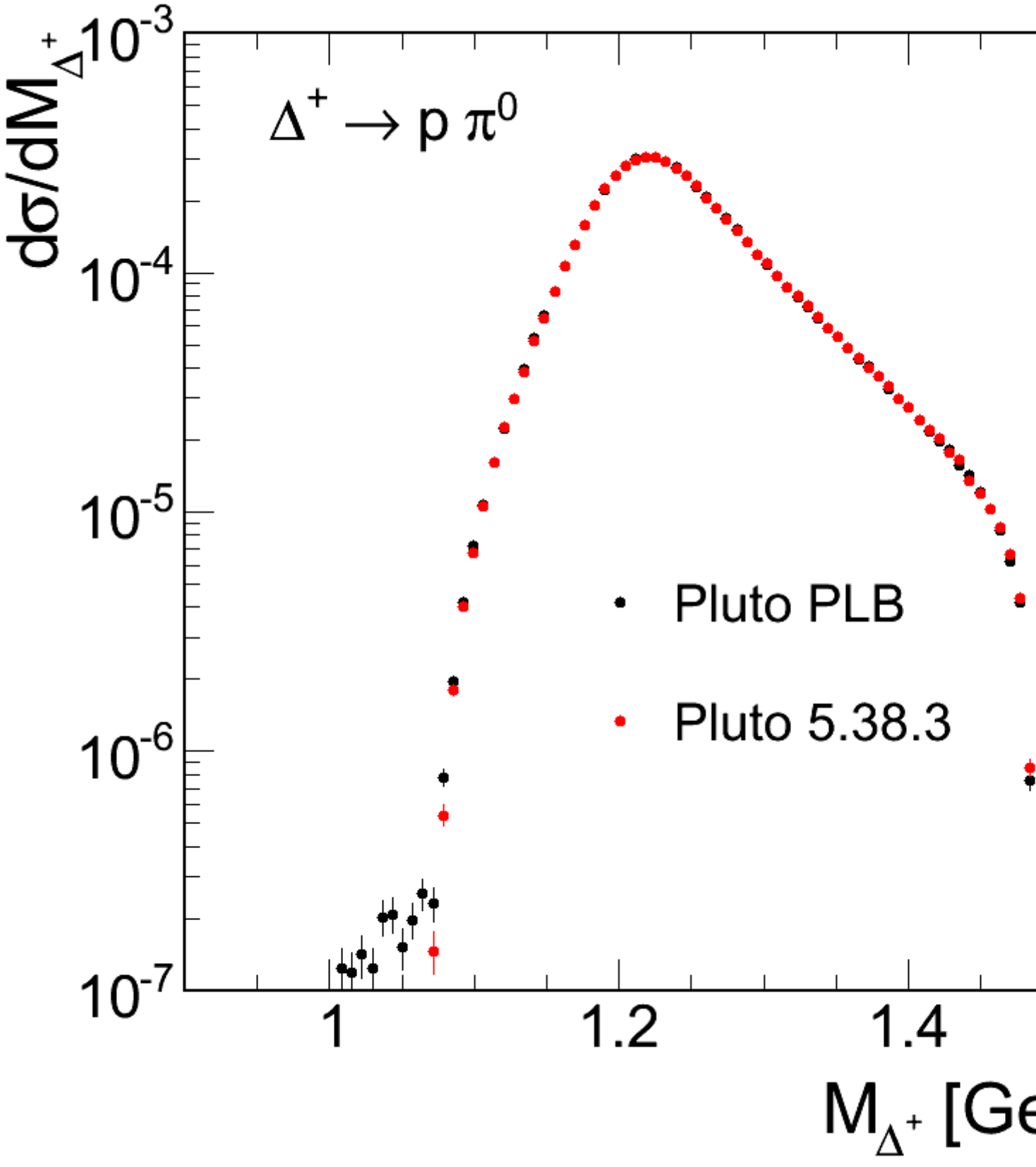
1) BR_DeltaPlus_pp125_pp22_pp35.gif, downloaded 1440 times



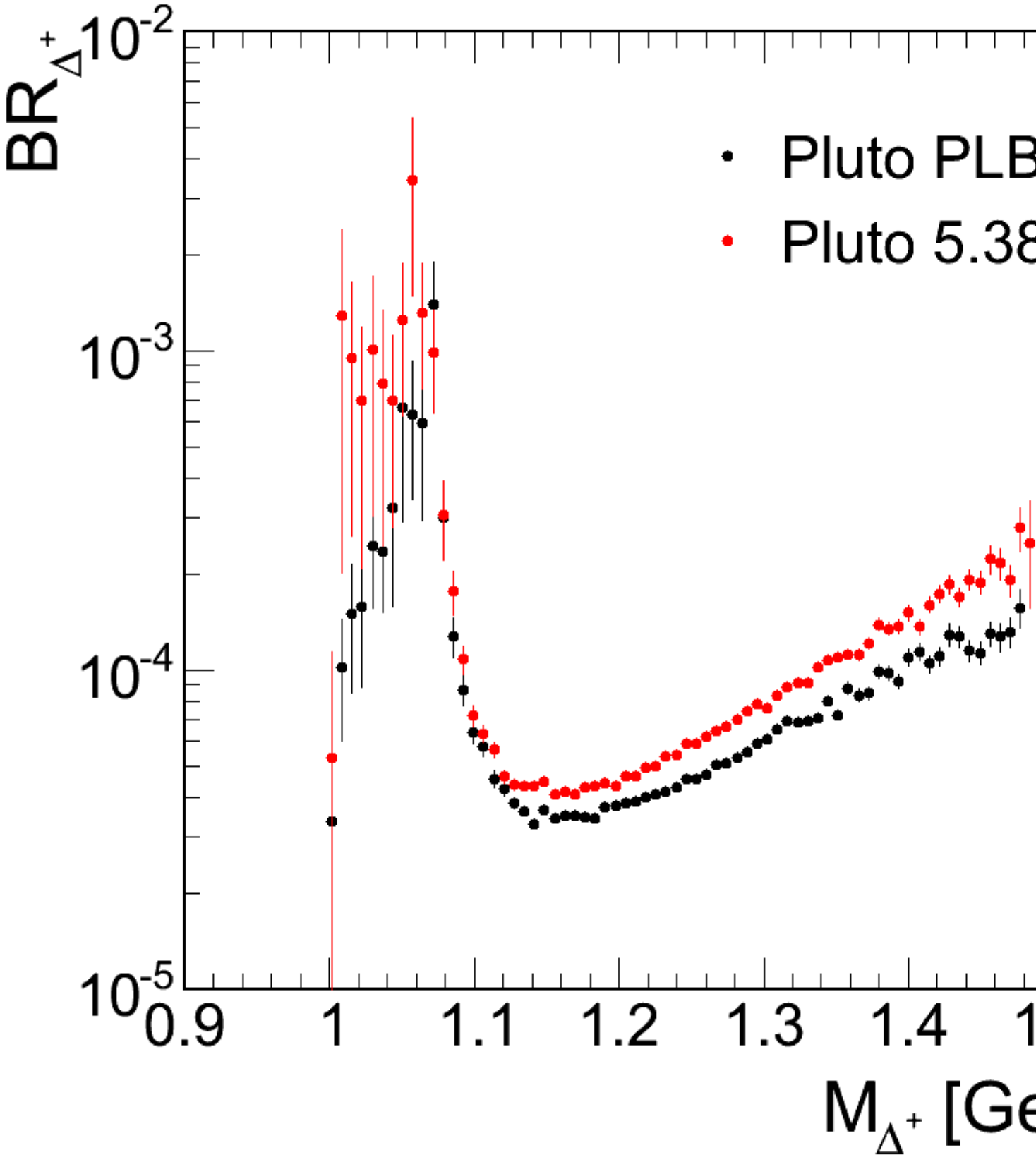
2) Delta_ProtonEpEm_pp125.gif, downloaded 1530 times



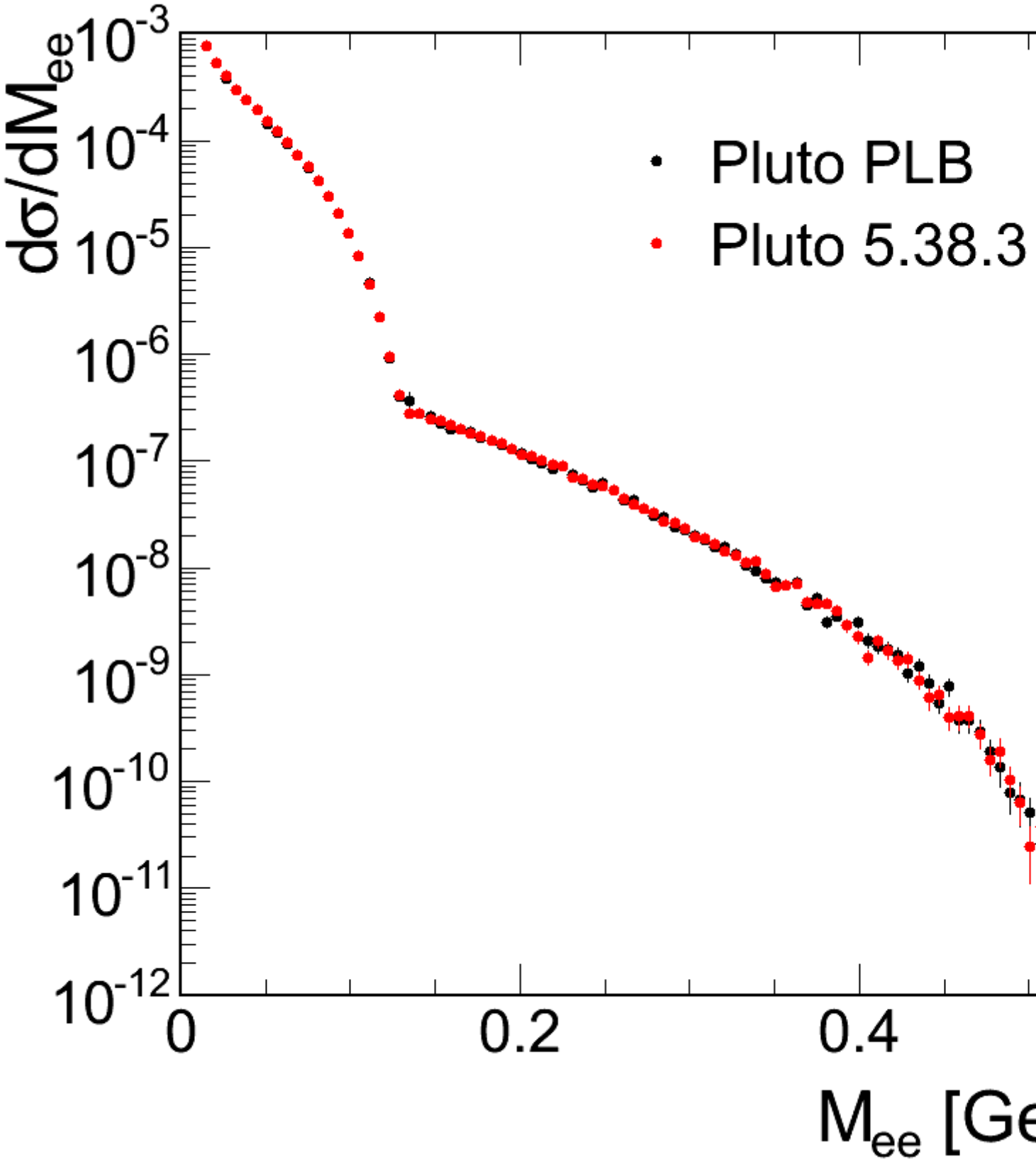
3) Delta_ProtonPi_pp125.gif, downloaded 1022 times



4) BR_DeltaPlus_pp125_PlutoPLBvsPluto5382.gif, downloaded 1075 times



5) Minv_EpEm_pp125.gif, downloaded 1509 times


dσ/dM_ee
10^-3
10^-4
10^-5
10^-6
10^-7
10^-8
10^-9
10^-10
10^-11
10^-12
Pluto PLB
Pluto 5.38.3
0
0.2
0.4
M_ee [Ge