

---

Subject: Re: vertex fitting

Posted by [Alexandros](#) on Wed, 10 Sep 2014 09:38:32 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi again,

I have one more question..

I am trying to calculate ctau for D0 meson in my analysis(123micrometers)

From the mc the calculation is correct(125micrometers).

From the vertex information I get 185micrometers..

I have looked several times my code and I could not find a single mistake..

Is there a chance, since we are talking about micrometers that the resolution is not good or there is something else wrong??

I attach my code and my results to get an idea..

Thanks!!

---

### File Attachments

---

- 1) [Analysis.C](#), downloaded 305 times
  - 2) [Draw.C](#), downloaded 288 times
  - 3) [distance\\_from\\_IP.pdf](#), downloaded 335 times
  - 4) [betaVSenergy.pdf](#), downloaded 278 times
  - 5) [ctau\\_and\\_beta\\*gamma\\_mc.pdf](#), downloaded 288 times
  - 6) [ctau\\_and\\_beta\\*gamma\\_data.pdf](#), downloaded 286 times
-