

Dear Editor and Referee,

Thankyou for reviewing the proceeding and for your valuable suggestions. I have implemented them in the updated manuscript. Please find my reply inline.

Thanks and regards,  
Roli Esha

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Please see the comments below from the reviewing team:

"It is very nice to see the elliptic flow of open charm mesons is studied in a coherent framework for a very wide energy range. This kind of studies is very important for us to understand the experimental observations. Please find my comments below.

1. Since this analysis is performed on data generated by a modified version of AMPT model, it is better to say that explicitly in the abstract.

The partons are taken from AMPT. As coalescence of heavy quarks is not implemented in AMPT, this has been done externally. I have included this in the abstract.

2. Instead of simply say, "This proceeding is based on Ref[2]", I would suggest adding a brief background description to make the story self-contained.

Added ".. which is about the study of elliptic of flow open charm mesons and its implications .."

3. In Fig. 2, when  $p_T > 2\text{GeV}$ , this model study not only under-predict the D meson  $v_2$ , but also shows a different trend to the experimental data. Please point that out and preferably give some comments on that.

Added ".. Our model calculations for both 1.5 mb (which describes charged hadrons well) and 10 mb under-predict the data for  $D$ -meson  $v_2$ . It has a different trend as well at high  $p_T$ ."

4. The transition from D meson  $v_2$  to transport coefficients is a little bit abrupt. Please at least use a new paragraph to start the discussion about the transport coefficients. In the same context, the relation between transport coefficients and the specific viscosity could be better explained to make the logic more smooth.

Done

5. Page 3, line 23, "We show that  $v_2$  decreases with increase in specific viscosity". This trend seems only hold for  $D_0$  with  $p_t < 2\text{GeV}/c$  and for  $D_s$  the trend is not quite clear.

Added "...the trend being more pronounced for  $D^0$ "

6. Page 4, line 1, be a useful -> be useful

Done

7. In section 4, almost every sentence started with "We have". You may want to reword it a little bit.

Reworded

8. There are multiple copies of pdf files are uploaded. Please remove the duplicates."