

Smizanska

–well written paper; in a few cases some references and explanations useful to improve the readability should be added.

Dear referee,

Comments:

- masses are consistently quoted in MeV, whereas they should be MeV/c^2 : (page 2, halfway down rightmost column (twice), section 2.2 on page 3, section 5, Fig 1 caption, and Table 1 header,
 - **DONE**
- Explanation or reference for "DGLAP" (pag3 , column 1) is missing;
 - **Sorry, I am not aware of mentioning DQLAP in the document. Thank you for clarification if I am wrong.**
- On the same note it would be useful to add a reference for all the MC or MC models that are used , i.e.: DJANGO, CDM, RAPGAP, CASCADE, CCFM (pag. 3, 2nd column); PHYTIA (fig.7 and pag. 5). Add at least an explanation for the "Peterson and Kartvelishvili functions" end of pag. 4; HQVDIS (pag. 6, column 1);
 - **There is no Fig 7 or page 5 or 6. Perhaps these comments belong to somewhere else? Thanks for clarification.**
- references: for published papers (i.e. ref 5 and 7) do not add arXiv info.
 - **DONE**
- both figures in Fig 3: plots are so small that the numbers and labels on the axes are not legible. Suggest having each plot as a full-width figure and stack them vertically (not horizontally, as they are now) This suggestion may result in the page limit being violated, in which case section 2 can likely be trimmed by a few lines.
 - **Unfortunately ATLAS collaboration approved this Figure as a 'Double Figure' so I have no right to split the Figure into two parts. Sorry, I had to leave it in the current form.**
- The template is not followed systematically:

- **I shortened too large free spaces between Figures and their respective captions, which made the text more compact.**
- Section titles should be all written with capital letters , please modify
 - **DONE**
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Thank you,

Maria Smizanska, Lancaster.