Thanks to the reviewers for important remarks.

Answer to the first reviewer:

1. Employment of the artifcially increased electron approximation probably requires a more detailed discussion. How would the simulation results change if m\_e is assigned, say, a 2 times smaller or 2 times larger value?
2. Why is the vertical axis in Figure 2 cat at the 10(-7) level? It looks like there is still some structure of F(E) above several m\_e c^2.

The figure is cut at this level because non-thermal tail of distribution has strong unphysical statistical fluctuations at high energies, where is very small number of particles. We added this explanation to the text.

1. Tables 1 and 2 lack at least a brief description of the tabulated values.

Definitions of values are added to the captions below the tables.

1. In the caption of Figure 3 one should explain r\_g0

Explanation is added to the caption

1. The text needs some language checks; e.g., the articles are missing in several sentences of Sect. 2.

The text of paper is edited regarding language mistakes, articles are added.

Answer to the second reviewer

1. I would recommend authors to add couple phrases into Conclusion about difference methods and results

Conclusion is extended, phrases about of significance and possible applications of results are added.

1. The end of page 1: “The the cocoon…” misprint.

Languge mistakes are corrected