

Comments to recommendations of Reviewer of paper “Coulomb Collisions in a “Single” Ionized Plasma”, and short description of changes in the paper.

Begin with second statement of the Reviewer, “A wider explanation of Figure 1 should be presented. Absence of a full description makes text is hardly understandable for readers who aren’t aware with the previous Author’s papers”

- Former restriction, to pack a paper in 4 pages, lived no opportunity to unroll the details of information that is enfolded in Figure 1. Fortunately, this time I see the permission to exceed the page limit. In view of this, I have introduced all essential notions that are necessary to decrypt the figure, i.e. to translate it into an analytical expression. I stress that I still introduced only the ready knowledge, I do not expand the derivation of that expression. The latter derivation is described well correctly in both my monographs, and also in paper “Derivation of an equation for three-wave interactions based on the Klimontovich–Dupree equation” (V. I. Erofeev, Journal of Plasma Physics 57, 273–298 (1997), the first one on modeling plasma kinetics without ensemble averaging). Respective derivation has consumed there some about 8 journal pages. Naturally, it would not have been wise to ask me to include that calculation into the body of current conference contribution.

Now let me discuss the first of the Reviewer’s statements, “The introduction contents to much information, which does not connect directly to the topic. Thus, it can be reduced.”

- The Introduction contains the most important information that motivates the study. It hardly can be characterized as a lengthy one. The reader can check that I have unrolled in the Introduction the essence of the category “informativeness”, have pointed there the urgency of the problem of non-informativeness of bulk traditional plasma kinetic scenarios, and have also formulated the natural ideas of developing the most informative of plasma scenarios. This covers factually only the declarations of two first phrases in the paper Abstract. The intention of the study becomes transcendental without respective information in the Introduction. Really, scholars with traditional education in plasma theory may put forth easy questions, “What is the given study devoted to? Is not it commonly accepted that the physics of Coulomb collisions is adequately developed with the well-known collision integrals after Landau, Lenard and Balescu? Why the corresponding understanding should be exposed to extra scrutiny?” I can’t agree that my Introduction can be reduced. I have presented here laconically the essence of my understanding of problems of plasma kinetic theory and the most logical attitude to them. I suppose that some younger researchers may get an interest to the title problem of my contribution only due to this component. Possibly, they would be more vigorous and lucky in solving the problem, i.e. in constructing the highly informative scenario of plasma evolution due to the Coulomb collisions in the chosen physical situation. Irrespectively to this, my ideas had open new avenue of theory development. Some theorists do not wish to comprehend them, but they are worthy of wider promotion. Hope that the Reviewer would be generous not to ask more for reducing of their current description.

Apart from above mentioned explanations on the Figure in the paper, I have added in the paper three phrases that I feel necessary for additional clarifying of the essentials of my paradigm of plasma kinetic modeling. One of them explains explicitly that the only possibility of avoiding traditional plasma ensemble averaging consists in its substitution, in the definition of the particle distribution function, by a contextually oriented averaging over the phase space of respective particles. The other added clause clarifies more explicitly that both the Boltzmann’s and Landau’s kinetic equations were developed (indirectly though) within paradigm of plasma ensemble considerations. The third of additional phrases explains a bit more transparently how do nonlinear effects induce modifications of spectrum of two-time function $\Phi_k(t', t')$ at intermediate values of k and hence define it. Finally, I have applied efforts to

improve description of attitude to final equations of the contribution for prospective completing of developing informative scenario of plasma Coulomb collisions.