

Interactive comment on “Model of Propagation of VLF Beams in the Waveguide Earth-Ionosphere. Principles of Tensor Impedance Method in Multilayered Gyrotropic Waveguides” by Yuriy Rapoport et al.

Yuriy Rapoport et al.

yuriy.raपोport@gmail.com

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Dear Colleagues,

We download now the answers to the Referees concerning our paper:

Journal: ANGIO

Title: Model of Propagation of VLF Beams in the Waveguide Earth-Ionosphere. Principles of Tensor Impedance Method in Multilayered Gyrotropic Waveguides

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Author(s): Yuriy Rapoport et al.

MS No.: angeo-2019-46

MS Type: Regular paper

Special Issue: Solar magnetism from interior to corona and beyond

We are very grateful to the Anonymous Referee #2 and are answering directly to each of the main his comments and will answer to each of the minor comments in the final text of the revised paper as well.

WE believe that the paper becomes really better and more clear, informative and useful for the readers due to the improvements inspired by the Referee.

We include also separately the Figures with new simulations (Figs. 8, 9, 10) done in response to the questions of Referee 2, and also Figures 3 and 5 which are improved in accordance with the requirement of the Referee 2.

For the illustration of the improvements done in the response to the comments of Referee 2, we added the text of the new draft of the paper in the end of the answer to Referee 2, started with P. 11., as additional illustration material. The section 5 and the Figures 8-10 are new, and the corresponding Conclusions are added. In our answers to the Referee's comment, we refer to this additional material, included in the present file. We refer to corresponding pages and lines such as f.e. "P31" and "L20". We tried to include the new material, added to the previous text of the paper in response to Referee's comments in self-consistent manner, to make clear, that the material both answers to the questions and is suitable to the general context of our work. Nevertheless this is not the final version of the revised paper yet. The last will be prepared only when and if we get the corresponding permissions from the Referee and the Editors of AnGeo.

Detail answer is presented in the attached file. The attachments include detail answer to the Referee 2 (74_With Answer_No Color_Asen22Apr_Rapoport et al.pdf) and

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Figures.

Sincerely Yours,

On behalf of the Authors,

Yuriy Rapoport

Senior Research Fellow

Physics Faculty

National Taras Shevchenko University of Kyiv

UKraine

Please also note the supplement to this comment:

<https://www.ann-geophys-discuss.net/angeo-2019-46/angeo-2019-46-AC2-supplement.pdf>

Interactive comment on Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2019-46>, 2019.