

**The reviewer's report on the paper 'Periodic solutions of the spatial extension of a conditionally periodic system' by Yu.D. Kozlov**

The paper is concerned with the existence theorem for a periodic solution to a linear ordinary differential equation that contain a real conditionally periodic matrix and a multiplication by a complex number. The analysis of the original problem relies on the study of eigenvalue problem (0.6).

The solution is considered in a generalized sense, i.e., the author searches the solution in the space that is dual to the space of periodic smooth functions.

Comments

- The Introduction is written in the nonstandard way. The survey of previous result is extremely brief. Thus, it is almost impossible to judge about the novelty and importance of the obtained result.
- The main results of the paper looks very close to the previous paper of the same author. I highly recommend to underline the novelty of the paper under review.
- The paper suffers from the lack of definitions. In particular, the following concepts are to be defined within the paper:
  - ‘periodic in  $\phi_j$ ’;
  - letters  $e$  and  $\hat{e}$ ;
  - generalized periodic solution.
- I suggest to give the proof of Lemma 0.2. Moreover, could the author write that Lemma 0.1 is prove in the last section. Now, the phrase about its proof looks vague.
- There are several misprints. In particular, replace ‘weekly’ with ‘weakly’.

Evaluating the whole paper, I suggest the major revision and one more review.