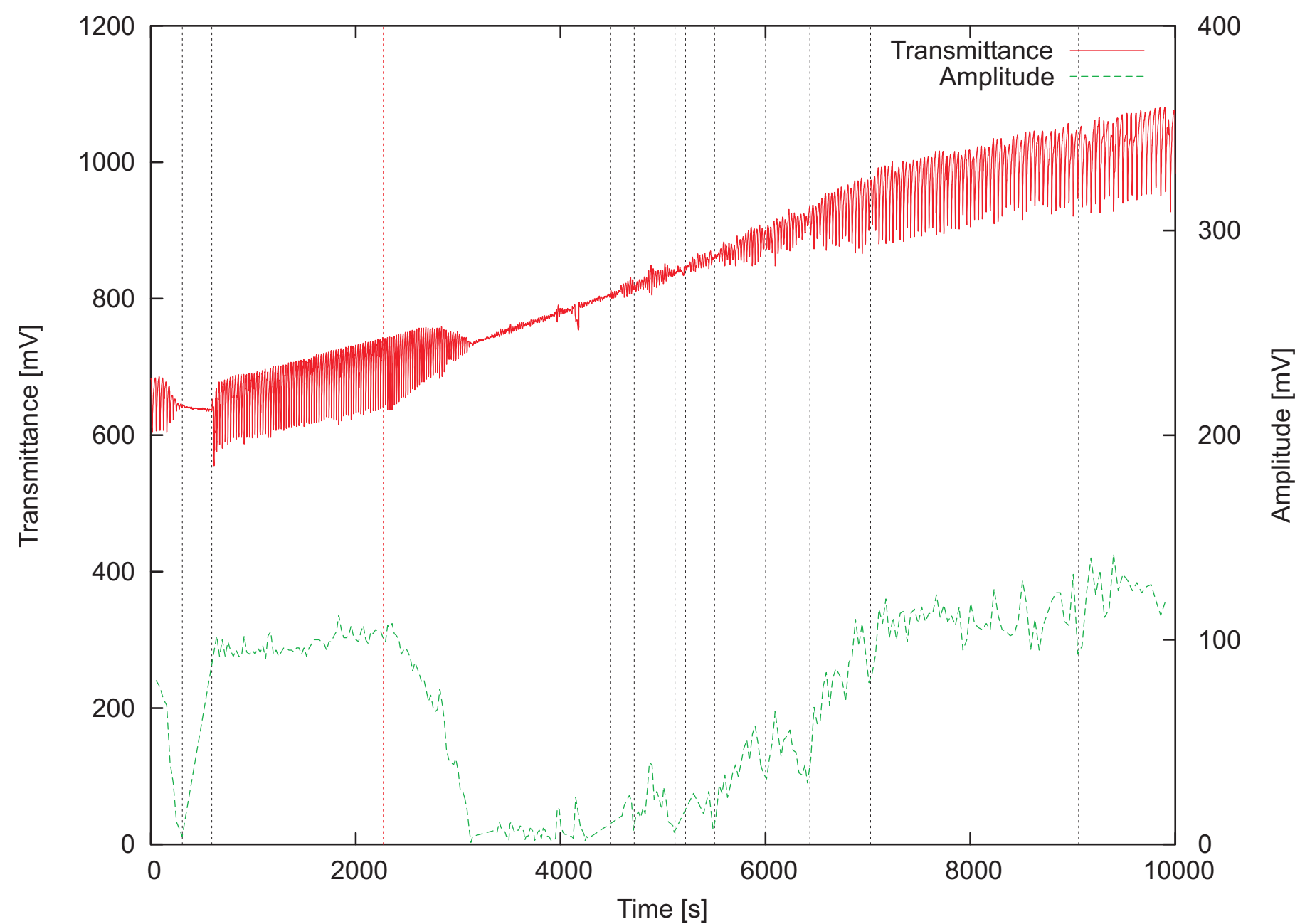
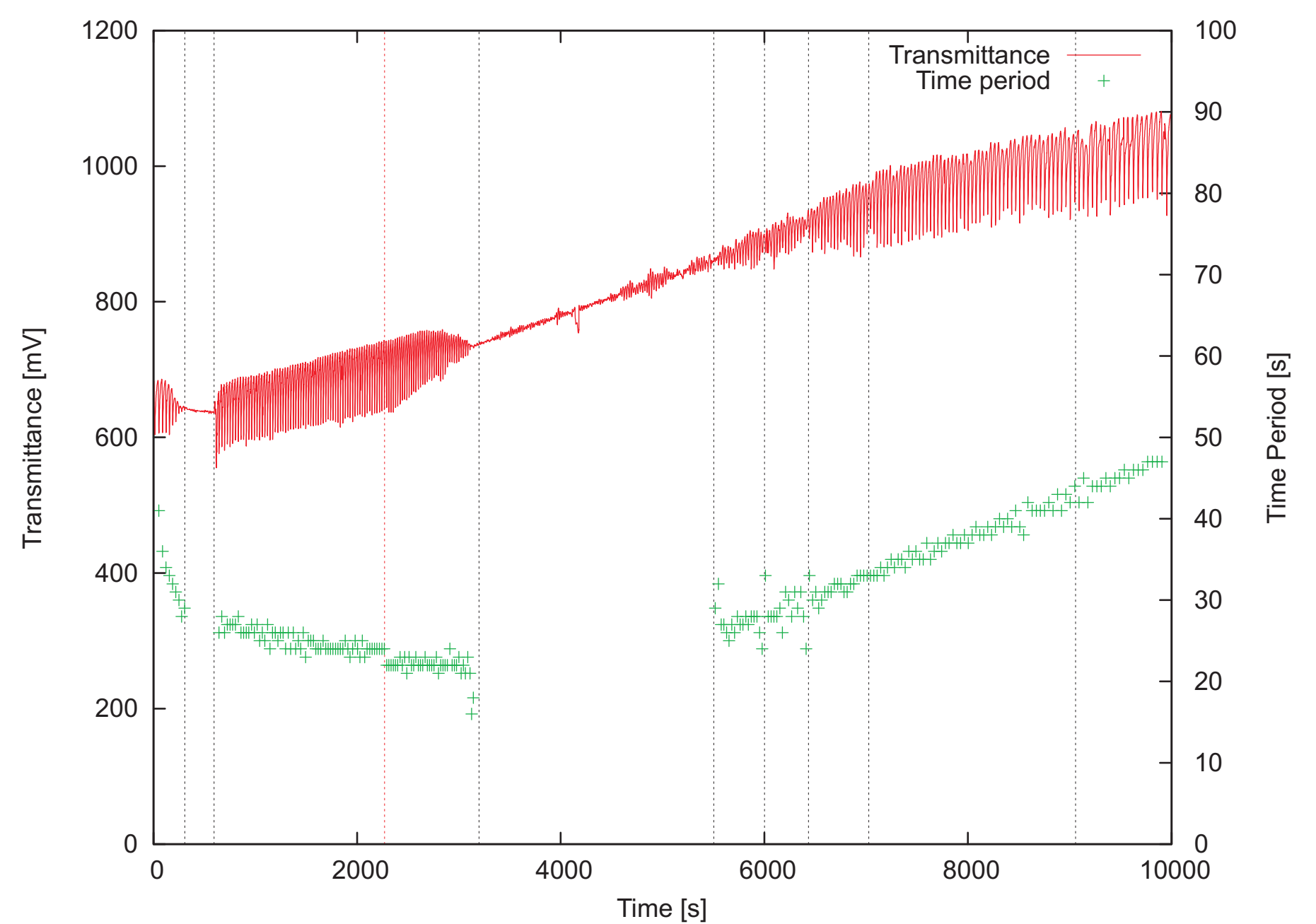


# Supplement to ‘Stirring effect on the Belousov Zhabotinsky reaction’

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**Figure 1:** Time evolution of the amplitudes of the periodic color change of the BZR. The vertical red line marks the end of stirring (at time 2270 s). The other vertical lines mark some characteristic changes in the amplitudes. At this times (e.g. 6000 s) the amplitudes reach a local minima.



**Figure 2:** Time evolution of time periods of the periodic color change of the BZR. This figure replaces figure 3 in the poster. The vertical red line marks the end of stirring (at time 2270 s). At this time the time period decrease by 2 seconds from 24 s to 22 s. The time periods between time 3143 s and time 5516 s are left out because the algorithm could not get the small oscillations.

## Improved algorithm and results

Figure 2 of this supplement differs from the figure 3 in poster since it is now based on an improved algorithm. The main qualitative difference is that now the time periods within the range from 5516 s to 10 000 s increase in a rather linear manner.

The improved algorithm is now also able to calculate the amplitudes of the periodic color change of the BZR (see figure 1). The evolution of the amplitudes shows some characteristic local minima (vertical dashed lines in figure 1) which might suggest the existence of a double periodicity of the system.

## Acknowledgments

The new algorithm was improved with the help of an idea by Herman Perk. Fruitful and intense discussions with him are gratefully acknowledged.

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