

very high, from our viewpoint, only 5 hours will elapse in the second rocket during our 10 elapsed hours. But we know that at the meeting point both clocks must show equally 10 hours of elapsed time. It means that when we finished our acceleration, the rocket No.2 had already 5 hours of elapsed time of its uniform motion. But we know that one hour before we started together with the rocket No.2. So, from our viewpoint, the rocket No.2 finished its acceleration 4 hours before our common start, what means the violation of causality.

The application of SRT for solution of practical situations leads definitely to the violation of causality principle. If we want to accept the SRT, we must also accept the miracle that during one hour of our acceleration, the rocket No.2 accomplished its acceleration and moved uniformly for 5 hours.

Conclusion

The mutual symmetry of systems cannot cause the effect of time dilation. The violation of causality in SRT is a direct consequence of the relativity of simultaneity. So the relativity of simultaneity does not exist. If two events are simultaneous in one system, they are simultaneous in all others, regardless of their motion or position in space. This follows from the unity principle of the Universe according to which everything is directly (non-locally) connected with everything else.