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Guest Commentary

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## **Einstein's General and Special Relativity Cannot be Physically Real**

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The clear and simple physical analysis of rotating reference frame made in his paper proves that Einstein's general and special theory of relativity cannot be physically real because there is no real physical reason for curved geometry in rotating reference frames.

### **Introduction**

The number of linear measures for a rotating ring consists of (in an inertial reference frame in rest with respect to the center of the ring at the given diameter according to the relative length contraction of Einstein's special theory of relativity [1] at the given circumference velocity higher than if the ring does not rotate) contracted linear measures fulfilling the diameter of the rotating ring that remain the same as when the ring does not rotate. These numbers of linear measures fulfilling the circumference and diameter of a rotating ring have to be the same in the reference frame of rotating ring as well. Therefore the ratio between the number of linear measures fulfilling the circumference and the number of linear measures fulfilling the diameter (in the reference frame of rotating ring as well as in the inertial reference frame) is identically different from 3.14. In the reference frame of the rotating ring this so called curved geometry is explainable only as the consequence of this reference frame being accelerated.

### **Analysis**

The acceleration (together with the force acting on the mass unit on the circumference) depends on the circumference velocity and the diameter. However, the ratio between the number of linear measures fulfilling the circumference and diameter, depends in the inertial reference frame only in terms of the circumference velocity, and is the same in the reference frame of the rotating ring where it is the measure of curved geometry. Therefore we have for example, a rising geometry curvature in the reference frame of rotating ring which at a constant angular velocity and rising diameter the rising acceleration together with the force acting on the mass unit at the circumference, but also we have a constantly curved geometry in the reference frame of rotating ring for a given

circumference velocity and reducing diameter, such that the rising acceleration acts together with the force affecting the mass unit on the circumference.

### **Conclusion**

As clearly seen by this short analysis there is no relation between acceleration together with the force acting on the mass unit on the circumference and the curved geometry in the reference frame of the rotating ring. Consequently there is no real physical reason for using a curved geometry in rotating reference frames. Therefore no curved geometry in a rotating reference frames can really exist, while at the same time means that no relative length contraction in inertial reference frames can really exist as well. It can therefore be concluded that Einstein's general and special theory of relativity cannot be physically real.

### **References**

[1] Feynman R.P., Leighton R.B., Sands M., *The Feynman Lectures on Physics*, 4<sup>th</sup> edition, Addison-Wesley, 1966.

**Acknowledgement:** Dedicated to the memory of famous physicist Paul Ehrenfest who at the beginning of the last century, under the strange circumstances, could not finish his work on the problem of rotating disc. His work has already been finished.

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