Kinematics – Motion in space

Motion is changing from one place into other

Motion (or **Movement**) (Translation) in Mechanics (or **Kinematics**) is position in space

note: Translation is a component of motion

$$\begin{pmatrix} x_1 & y_1 & z_1 \\ x_2 & y_2 & z_2 \\ x_3 & y_3 & z_3 \end{pmatrix} \rightarrow \text{whole Motion}$$

"move in just a mathematical abstraction"

Mathematics has $\mathbb{R}_3$ mathematics

$$\boxed{\text{Motion} = (x, y, z)_{\text{Mathematics}}}$$

note: mathematics does not do anything, but makes the world mathematical digital. "We have to think what we calculate actually"

Trivial Motion – Motionless Movement or Motion / Space remains the same or mathematical space

mathematical Spaces are more universal, interesting, than real physical world, physical world

Mathematical Spaces are more interesting than physical spaces

Non-mathematical Spaces are called **Metaphysical Spaces**

"Every physical Thing exists only mathematically, but Physical Things exists also additional mathematical Form of existence"

"Everything is Mathematical"

Metaphysical Things

Trivial Motion – Motionless Movement or Motion / Space remains the same or mathematical space

Metaphysical Things exists only mathematically, but physical Things exists also mathematically

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Mathematical Things

Physical Things

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