



SurTech

TOPIC - Friction

Title: The Invisible Force that Shapes our Daily Lives

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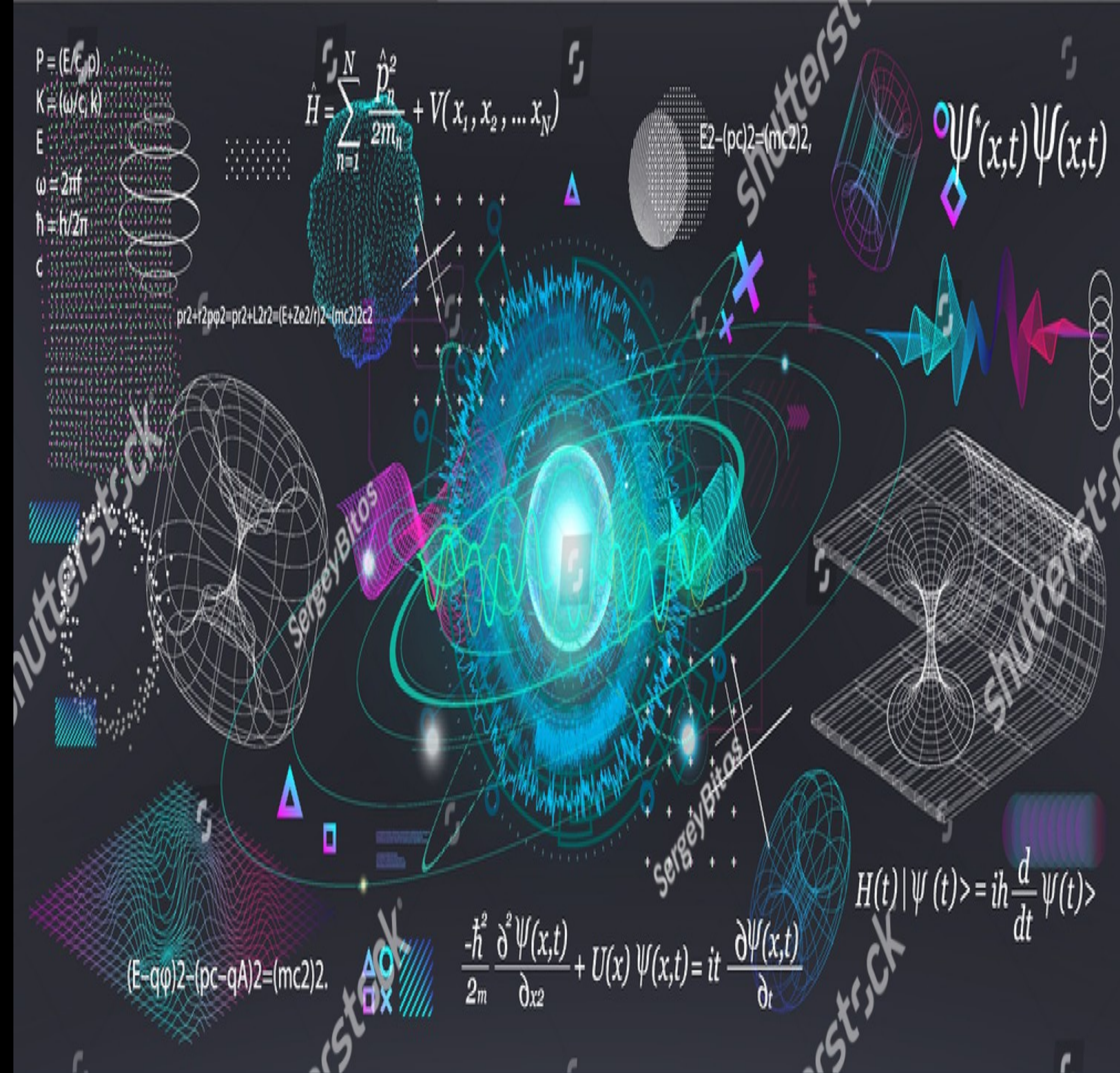
Introduction to Friction

- Definition of Friction
- Importance in our Daily Lives
- Types of Friction: Static, Kinetic, Rolling



Types of Friction

- **Static Friction:** Objects at rest.
- **Kinetic Friction:** Objects in motion.
- **Rolling Friction:** Occurs when a round object rolls over a surface.



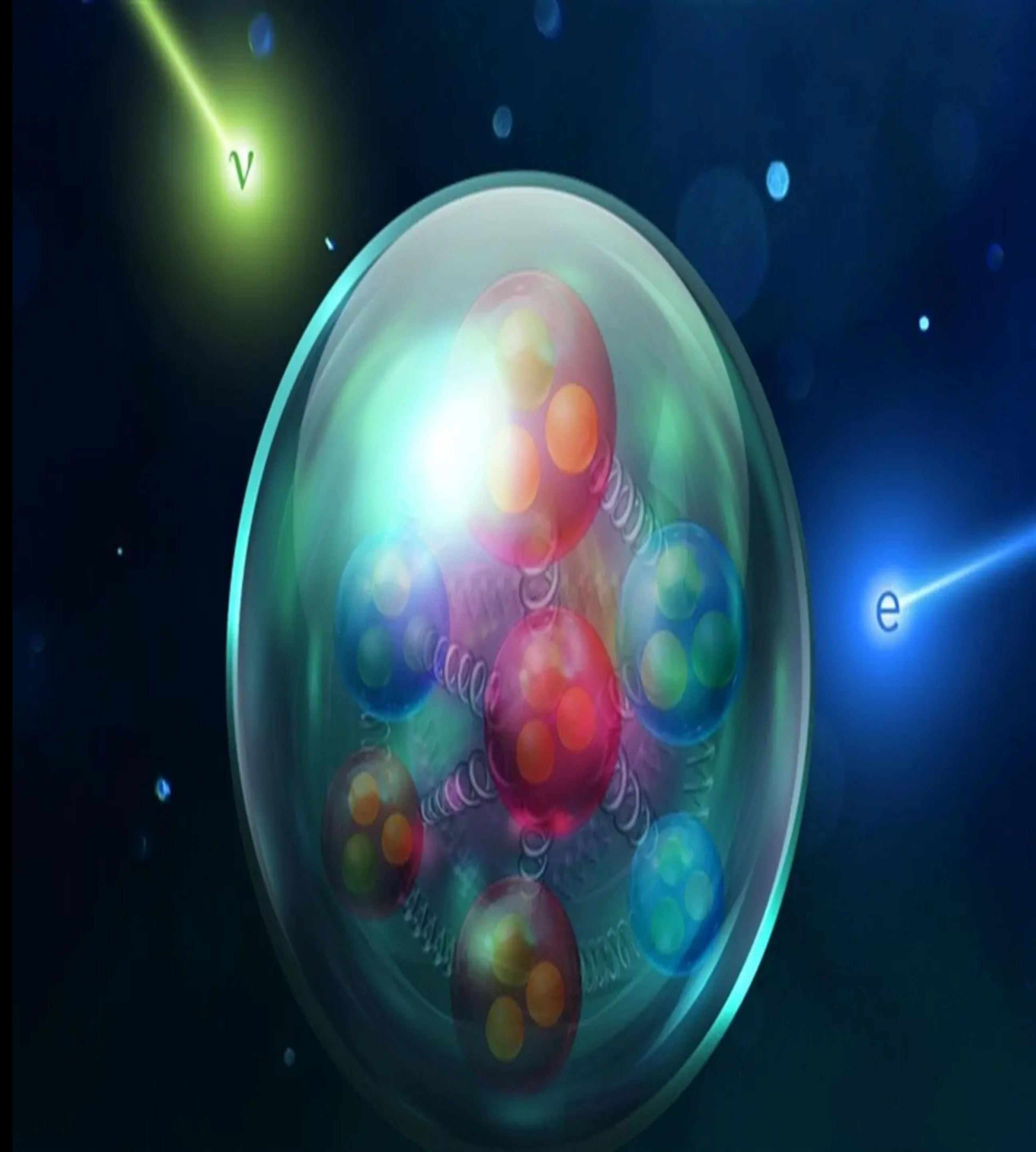
Causes of Friction

Surface Roughness
Interlocking of Surface
Asperities
Adhesion between
Molecules



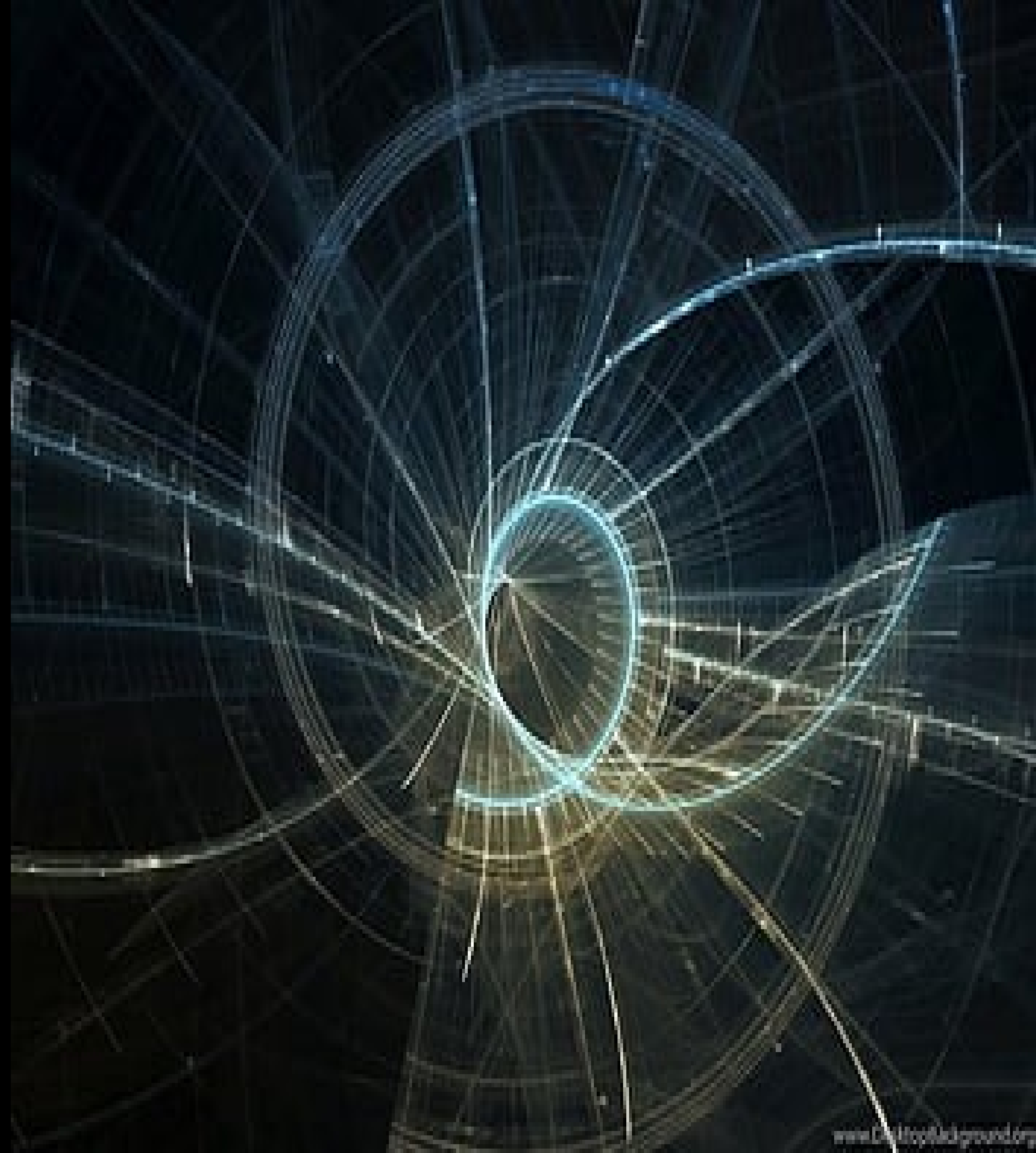
Factors Affecting Friction

- Normal Force
- Surface Area
- Types of Surfaces
- Temperature



The Role of Friction in Everyday Life

- Walking and Running
- Braking in Vehicles
- Writing with a Pen or Pencil
- Opening and Closing Doors



Benefits of Friction

- Traction in Vehicles
- Writing and Drawing
- Gripping Objects

