

WHAT DOES INCIDENT MEAN IN PHYSICS

THE CONCEPT OF AN "INCIDENT" IN PHYSICS IS FUNDAMENTAL, YET ITS PRECISE MEANING CAN VARY DEPENDING ON THE CONTEXT. WHEN WE ASK, "WHAT DOES INCIDENT MEAN IN PHYSICS," WE'RE OFTEN REFERRING TO A SPECIFIC EVENT OR PHENOMENON THAT OCCURS, PARTICULARLY CONCERNING THE INTERACTION OF MATTER AND ENERGY. THIS CAN RANGE FROM A PARTICLE COLLIDING WITH ANOTHER TO A LIGHT RAY STRIKING A SURFACE. UNDERSTANDING THESE INCIDENTS IS CRUCIAL FOR COMPREHENDING EVERYTHING FROM THE SUBATOMIC WORLD TO THE VASTNESS OF THE COSMOS. THIS ARTICLE WILL DELVE INTO THE MULTIFACETED NATURE OF INCIDENTS IN PHYSICS, EXPLORING THEIR DEFINITION, VARIOUS TYPES, THEIR SIGNIFICANCE IN DIFFERENT BRANCHES OF PHYSICS, AND THE MATHEMATICAL FRAMEWORKS USED TO DESCRIBE THEM. WE WILL NAVIGATE THROUGH THE REALMS OF CLASSICAL MECHANICS, ELECTROMAGNETISM, QUANTUM MECHANICS, AND MORE, ILLUMINATING HOW THE TERM "INCIDENT" PLAYS A PIVOTAL ROLE IN OUR SCIENTIFIC UNDERSTANDING.

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WHAT IS AN INCIDENT IN PHYSICS?

AT ITS CORE, AN INCIDENT IN PHYSICS SIGNIFIES AN EVENT WHERE TWO OR MORE PHYSICAL ENTITIES INTERACT. IT'S A MOMENT OF ENGAGEMENT, A POINT IN TIME AND SPACE WHERE FORCES ARE EXCHANGED, ENERGY IS TRANSFERRED, OR PROPERTIES ARE ALTERED. THINK OF IT AS A "HAPPENING" THAT IS SIGNIFICANT FROM A PHYSICAL PERSPECTIVE. THIS HAPPENING ISN'T JUST A RANDOM OCCURRENCE; IT'S A PHENOMENON THAT CAN BE OBSERVED, MEASURED, AND DESCRIBED USING THE LAWS OF PHYSICS. WHETHER IT'S A SEEMINGLY SIMPLE COLLISION OR A COMPLEX WAVE INTERACTION, EACH INCIDENT PROVIDES VALUABLE DATA ABOUT THE UNDERLYING PHYSICAL PRINCIPLES AT PLAY.

THE TERM "INCIDENT" IS BROAD AND ENCOMPASSES A WIDE SPECTRUM OF PHYSICAL INTERACTIONS. IT CAN DESCRIBE THE ARRIVAL OF A PARTICLE AT A DETECTOR, THE MOMENT A PHOTON STRIKES AN ATOM, OR EVEN THE INITIAL SETUP OF A PARTICULAR EXPERIMENT. THE KEY CHARACTERISTIC IS THAT IT MARKS THE BEGINNING OF A PHYSICAL PROCESS OR INTERACTION THAT WE ARE INTERESTED IN STUDYING. WITHOUT THESE INCIDENTS, MUCH OF OUR UNDERSTANDING OF THE UNIVERSE WOULD REMAIN ELUSIVE, AS IT IS THROUGH OBSERVING AND ANALYZING THESE EVENTS THAT WE CAN BUILD AND REFINE OUR PHYSICAL THEORIES.

TYPES OF PHYSICAL INCIDENTS

THE PHYSICAL WORLD IS RIFE WITH DIVERSE INCIDENTS, EACH WITH ITS OWN UNIQUE CHARACTERISTICS AND IMPLICATIONS. THESE CAN BE BROADLY CATEGORIZED BASED ON THE NATURE OF THE INTERACTING ENTITIES AND THE FORCES INVOLVED. UNDERSTANDING THESE DIFFERENT TYPES IS ESSENTIAL FOR A COMPREHENSIVE GRASP OF WHAT AN INCIDENT TRULY REPRESENTS IN PHYSICS.

COLLISIONS

COLLISIONS ARE PERHAPS THE MOST INTUITIVE TYPE OF INCIDENT. THEY OCCUR WHEN TWO OR MORE OBJECTS COME INTO CONTACT AND EXERT FORCES ON EACH OTHER OVER A SHORT PERIOD. THESE CAN RANGE FROM THE MACROSCOPIC, LIKE A BILLIARD BALL STRIKING ANOTHER, TO THE MICROSCOPIC, SUCH AS TWO SUBATOMIC PARTICLES COLLIDING. THE ANALYSIS OF COLLISIONS IS CRUCIAL FOR UNDERSTANDING MOMENTUM AND ENERGY CONSERVATION.

- **ELASTIC COLLISIONS:** IN THESE INCIDENTS, BOTH KINETIC ENERGY AND MOMENTUM ARE CONSERVED. IMAGINE TWO PERFECTLY BOUNCY BALLS COLLIDING; THEY REBOUND WITHOUT LOSING ANY SPEED TO HEAT OR DEFORMATION.
- **INELASTIC COLLISIONS:** HERE, KINETIC ENERGY IS NOT CONSERVED, ALTHOUGH MOMENTUM IS STILL CONSERVED. THINK OF A CAR CRASH WHERE SIGNIFICANT ENERGY IS DISSIPATED AS HEAT, SOUND, AND DEFORMATION.
- **PERFECTLY INELASTIC COLLISIONS:** THIS IS AN EXTREME CASE OF AN INELASTIC COLLISION WHERE THE COLLIDING OBJECTS STICK TOGETHER AFTER IMPACT, LOSING THE MAXIMUM POSSIBLE KINETIC ENERGY.

INTERACTIONS WITH FIELDS

MANY INCIDENTS INVOLVE THE INTERACTION OF PARTICLES OR OBJECTS WITH PHYSICAL FIELDS, SUCH AS GRAVITATIONAL, ELECTRIC, OR MAGNETIC FIELDS. THESE INTERACTIONS OFTEN OCCUR WITHOUT DIRECT PHYSICAL CONTACT BUT ARE GOVERNED BY FUNDAMENTAL FORCES.

- CHARGED PARTICLES MOVING THROUGH ELECTRIC AND MAGNETIC FIELDS EXPERIENCE FORCES THAT CAN ALTER THEIR TRAJECTORIES. THIS IS FUNDAMENTAL TO DEVICES LIKE PARTICLE ACCELERATORS AND MASS SPECTROMETERS.
- A PLANET ORBITING A STAR IS AN ONGOING INCIDENT OF INTERACTION WITH THE GRAVITATIONAL FIELD.
- THE WAY A COMPASS NEEDLE ALIGNS WITH EARTH'S MAGNETIC FIELD IS ANOTHER EXAMPLE OF AN INCIDENT INVOLVING A FIELD INTERACTION.

WAVE PHENOMENA

WHEN WAVES ENCOUNTER BOUNDARIES OR OTHER WAVES, THEY UNDERGO VARIOUS PHENOMENA THAT CAN BE CONSIDERED INCIDENTS. THESE ARE CRITICAL IN OPTICS, ACOUSTICS, AND QUANTUM MECHANICS.

- **REFLECTION:** WHEN A WAVE BOUNCES OFF A SURFACE, SUCH AS LIGHT REFLECTING OFF A MIRROR.
- **REFRACTION:** WHEN A WAVE BENDS AS IT PASSES FROM ONE MEDIUM TO ANOTHER, LIKE LIGHT ENTERING WATER.
- **DIFFRACTION:** THE BENDING OF WAVES AROUND OBSTACLES OR THROUGH OPENINGS, LEADING TO CHARACTERISTIC INTERFERENCE PATTERNS.
- **INTERFERENCE:** THE SUPERPOSITION OF TWO OR MORE WAVES, RESULTING IN A NEW WAVE WHOSE AMPLITUDE IS THE SUM OF THE AMPLITUDES OF THE INDIVIDUAL WAVES.

QUANTUM MECHANICAL INCIDENTS

IN THE REALM OF QUANTUM MECHANICS, INCIDENTS TAKE ON A PROBABILISTIC AND OFTEN COUNTER-INTUITIVE NATURE. THESE ARE THE EVENTS THAT DEFINE THE BEHAVIOR OF ATOMS, MOLECULES, AND SUBATOMIC PARTICLES.

- **PHOTOELECTRIC EFFECT:** THE INCIDENT OF A PHOTON STRIKING A METAL SURFACE AND EJECTING ELECTRONS. THIS WAS A

PIVOTAL EXPERIMENT IN THE DEVELOPMENT OF QUANTUM THEORY.

- **SCATTERING EVENTS:** SIMILAR TO CLASSICAL COLLISIONS BUT DESCRIBED BY WAVE FUNCTIONS AND PROBABILITY AMPLITUDES. AN INCIDENT ELECTRON SCATTERING OFF AN ATOM, FOR EXAMPLE.
- **DECAY PROCESSES:** THE INCIDENT OF AN UNSTABLE PARTICLE SPONTANEOUSLY TRANSFORMING INTO OTHER PARTICLES, RELEASING ENERGY.

THE SIGNIFICANCE OF INCIDENTS IN DIFFERENT PHYSICS FIELDS

THE CONCEPT OF AN INCIDENT IS NOT CONFINED TO A SINGLE AREA OF PHYSICS; IT'S A UNIFYING THEME THAT UNDERPINS OUR UNDERSTANDING ACROSS VARIOUS DISCIPLINES. EACH FIELD LEVERAGES THE IDEA OF AN INCIDENT TO PROBE FUNDAMENTAL LAWS AND PREDICT THE BEHAVIOR OF THE UNIVERSE.

CLASSICAL MECHANICS

IN CLASSICAL MECHANICS, INCIDENTS ARE PRIMARILY CONCERNED WITH THE MOTION OF MACROSCOPIC OBJECTS. THE ANALYSIS OF COLLISIONS, TRAJECTORIES, AND THE IMPACT OF FORCES ARE ALL ROOTED IN UNDERSTANDING SPECIFIC PHYSICAL INCIDENTS. FOR INSTANCE, CALCULATING THE RECOIL OF A CANNON WHEN IT FIRES A PROJECTILE INVOLVES ANALYZING THE INCIDENT OF THE EXPLOSION AND THE SUBSEQUENT INTERACTION BETWEEN THE CANNON AND THE EXPELLED MASS.

ELECTROMAGNETISM

ELECTROMAGNETISM DEALS EXTENSIVELY WITH INCIDENTS INVOLVING ELECTRIC CHARGES AND MAGNETIC FIELDS. THE INTERACTION OF ELECTROMAGNETIC WAVES (LIKE LIGHT) WITH MATTER, SUCH AS ABSORPTION, EMISSION, AND SCATTERING, ARE CRUCIAL INCIDENTS. MAXWELL'S EQUATIONS, THE BEDROCK OF CLASSICAL ELECTROMAGNETISM, DESCRIBE HOW CHANGING ELECTRIC AND MAGNETIC FIELDS PROPAGATE AND INTERACT, OFTEN STEMMING FROM SPECIFIC INCIDENTS LIKE THE MOVEMENT OF CHARGES.

THERMODYNAMICS AND STATISTICAL MECHANICS

WHILE OFTEN DEALING WITH BULK PROPERTIES, THERMODYNAMICS AND STATISTICAL MECHANICS ALSO RELY ON UNDERSTANDING THE CUMULATIVE EFFECT OF NUMEROUS MICROSCOPIC INCIDENTS. THE TRANSFER OF HEAT BETWEEN OBJECTS IS A RESULT OF COUNTLESS COLLISIONS BETWEEN THEIR CONSTITUENT PARTICLES. THE PHASE TRANSITIONS OF MATTER, LIKE WATER BOILING INTO STEAM, ARE COMPLEX PHENOMENA DRIVEN BY THE COLLECTIVE BEHAVIOR OF MOLECULES DURING VARIOUS THERMAL INCIDENTS.

QUANTUM MECHANICS

QUANTUM MECHANICS REDEFINES OUR UNDERSTANDING OF INCIDENTS. AT THIS SCALE, THE PRECISE OUTCOME OF AN INTERACTION IS OFTEN PROBABILISTIC, AND THE ACT OF OBSERVATION CAN INFLUENCE THE INCIDENT ITSELF. EXPERIMENTS LIKE THE DOUBLE-SLIT EXPERIMENT, WHERE PARTICLES BEHAVE AS WAVES WHEN NOT OBSERVED AND AS PARTICLES WHEN DETECTED, HIGHLIGHT THE UNIQUE NATURE OF QUANTUM INCIDENTS. THE CONCEPT OF QUANTUM ENTANGLEMENT, WHERE PARTICLES REMAIN CONNECTED EVEN WHEN SEPARATED, ARISES FROM SPECIFIC INITIAL INTERACTION INCIDENTS.

PARTICLE PHYSICS AND ASTROPHYSICS

IN PARTICLE PHYSICS, EVERY COLLISION WITHIN A PARTICLE ACCELERATOR IS AN INCIDENT DESIGNED TO PROBE THE FUNDAMENTAL CONSTITUENTS OF MATTER. STUDYING THE DEBRIS FROM THESE HIGH-ENERGY INCIDENTS ALLOWS PHYSICISTS TO DISCOVER NEW PARTICLES AND UNDERSTAND THE FORCES THAT GOVERN THEM. ASTROPHYSICS INTERPRETS INCIDENTS ON A COSMIC SCALE, FROM THE FUSION REACTIONS WITHIN STARS TO THE GRAVITATIONAL WAVES GENERATED BY COLLIDING BLACK HOLES. THESE CELESTIAL INCIDENTS PROVIDE CLUES ABOUT THE FORMATION AND EVOLUTION OF THE UNIVERSE.

MATHEMATICAL DESCRIPTION OF PHYSICAL INCIDENTS

DESCRIBING PHYSICAL INCIDENTS ACCURATELY REQUIRES ROBUST MATHEMATICAL FRAMEWORKS. THE CHOICE OF MATHEMATICAL TOOLS DEPENDS HEAVILY ON THE NATURE OF THE INCIDENT AND THE PHYSICS INVOLVED.

CONSERVATION LAWS

MANY PHYSICAL INCIDENTS ARE GOVERNED BY FUNDAMENTAL CONSERVATION LAWS. THESE LAWS STATE THAT CERTAIN QUANTITIES REMAIN CONSTANT BEFORE AND AFTER AN INCIDENT. THE MOST PROMINENT INCLUDE:

- CONSERVATION OF MOMENTUM: THE TOTAL MOMENTUM OF A CLOSED SYSTEM REMAINS CONSTANT. THIS IS PARTICULARLY USEFUL FOR ANALYZING COLLISIONS.
- CONSERVATION OF ENERGY: THE TOTAL ENERGY OF AN ISOLATED SYSTEM REMAINS CONSTANT, ALTHOUGH IT CAN TRANSFORM FROM ONE FORM TO ANOTHER.
- CONSERVATION OF ANGULAR MOMENTUM: FOR SYSTEMS WITH ROTATIONAL SYMMETRY, ANGULAR MOMENTUM IS CONSERVED.

EQUATIONS OF MOTION

FOR CLASSICAL MECHANICAL INCIDENTS, NEWTON'S LAWS OF MOTION ARE PARAMOUNT. THESE LAWS DESCRIBE HOW AN OBJECT'S VELOCITY CHANGES WHEN SUBJECTED TO A NET FORCE, ALLOWING US TO PREDICT THE TRAJECTORY AND OUTCOME OF AN INCIDENT.

WAVE EQUATIONS

IN FIELDS LIKE OPTICS AND ACOUSTICS, WAVE EQUATIONS ARE USED TO DESCRIBE HOW WAVES PROPAGATE AND INTERACT. SOLUTIONS TO THESE EQUATIONS CAN PREDICT PHENOMENA LIKE INTERFERENCE, DIFFRACTION, AND REFLECTION FOLLOWING A WAVE INCIDENT.

QUANTUM MECHANICAL FORMALISM

QUANTUM MECHANICS EMPLOYS MORE ABSTRACT MATHEMATICAL TOOLS, SUCH AS WAVE FUNCTIONS (Ψ , ψ) AND

OPERATORS, TO DESCRIBE INCIDENTS. THE SCHRÖDINGER EQUATION IS A CENTRAL EQUATION THAT GOVERNS THE TIME EVOLUTION OF A QUANTUM SYSTEM. THE PROBABILITY OF A PARTICULAR OUTCOME FOR A QUANTUM INCIDENT IS CALCULATED USING THE SQUARE OF THE WAVE FUNCTION'S AMPLITUDE.

PROBABILITY AND STATISTICS

GIVEN THE PROBABILISTIC NATURE OF MANY QUANTUM INCIDENTS, STATISTICAL METHODS ARE INDISPENSABLE. PHYSICISTS OFTEN RELY ON CALCULATING PROBABILITIES OF DIFFERENT OUTCOMES AND ANALYZING LARGE DATASETS OF REPEATED INCIDENTS TO DISCERN UNDERLYING PATTERNS AND VERIFY THEORETICAL PREDICTIONS.

EVERYDAY EXAMPLES OF PHYSICAL INCIDENTS

WHILE PHYSICS INCIDENTS CAN SOUND ABSTRACT, THEY ARE HAPPENING ALL AROUND US, EVERY SINGLE MOMENT. RECOGNIZING THESE EVERYDAY EVENTS AS PHYSICAL INCIDENTS CAN DEEPEN OUR APPRECIATION FOR THE LAWS THAT GOVERN OUR WORLD.

- **BOUNCING A BALL:** THE IMPACT OF THE BALL ON THE GROUND IS AN INCIDENT INVOLVING ELASTIC AND INELASTIC PROPERTIES, WITH ENERGY TRANSFER AND MOMENTUM EXCHANGE.
- **STRIKING A MATCH:** THE FRICTION CREATES HEAT, INITIATING A CHEMICAL REACTION. THIS IS AN INCIDENT OF ENERGY CONVERSION LEADING TO COMBUSTION.
- **DROPPING AN OBJECT:** THE INCIDENT OF AN OBJECT FALLING UNDER GRAVITY, ACCELERATING AS IT DESCENDS.
- **LIGHT TURNING ON A SENSOR:** WHEN YOU WALK INTO A ROOM AND THE LIGHTS AUTOMATICALLY SWITCH ON, IT'S AN INCIDENT WHERE YOUR MOVEMENT (OR HEAT) TRIGGERS A SENSOR, INITIATING AN ELECTRICAL EVENT.
- **HEARING A SOUND:** SOUND WAVES TRAVELING THROUGH THE AIR AND REACHING YOUR EARS IS A SERIES OF INCIDENTS OF PRESSURE VARIATIONS CAUSING YOUR EARDRUMS TO VIBRATE.

FROM THE GRANDEST COSMIC EVENTS TO THE SMALLEST INTERACTIONS AT THE QUANTUM LEVEL, THE CONCEPT OF AN INCIDENT SERVES AS A FOCAL POINT FOR SCIENTIFIC INQUIRY. IT IS THE MOMENT OF CHANGE, THE SPARK THAT IGNITES OUR CURIOSITY AND DRIVES OUR QUEST FOR UNDERSTANDING THE FUNDAMENTAL WORKINGS OF THE UNIVERSE. BY METICULOUSLY STUDYING THESE PHYSICAL HAPPENINGS, WE CONTINUE TO UNRAVEL THE INTRICATE TAPESTRY OF REALITY, ONE INCIDENT AT A TIME.

FAQ

Q: WHAT IS THE PRIMARY DIFFERENCE BETWEEN AN ELASTIC AND AN INELASTIC INCIDENT IN PHYSICS?

A: THE PRIMARY DIFFERENCE LIES IN THE CONSERVATION OF KINETIC ENERGY. IN AN ELASTIC INCIDENT, KINETIC ENERGY IS CONSERVED, MEANING THE TOTAL KINETIC ENERGY OF THE SYSTEM REMAINS THE SAME BEFORE AND AFTER THE INCIDENT. IN AN INELASTIC INCIDENT, KINETIC ENERGY IS NOT CONSERVED; SOME OF IT IS TRANSFORMED INTO OTHER FORMS OF ENERGY, SUCH AS HEAT, SOUND, OR DEFORMATION OF THE OBJECTS.

Q: HOW DOES QUANTUM MECHANICS CHANGE THE DEFINITION OF AN INCIDENT COMPARED TO CLASSICAL PHYSICS?

A: IN QUANTUM MECHANICS, INCIDENTS ARE OFTEN PROBABILISTIC. INSTEAD OF PREDICTING A SINGLE DEFINITE OUTCOME, QUANTUM MECHANICS PROVIDES THE PROBABILITY OF VARIOUS OUTCOMES. FURTHERMORE, THE ACT OF OBSERVATION OR MEASUREMENT CAN INFLUENCE THE STATE OF THE SYSTEM, THEREBY AFFECTING THE INCIDENT ITSELF, A PHENOMENON NOT PRESENT IN CLASSICAL PHYSICS WHERE OBSERVATION IS ASSUMED TO BE PASSIVE.

Q: CAN YOU PROVIDE AN EXAMPLE OF AN INCIDENT INVOLVING ELECTROMAGNETIC WAVES?

A: A COMMON EXAMPLE OF AN INCIDENT INVOLVING ELECTROMAGNETIC WAVES IS THE REFLECTION OF LIGHT FROM A MIRROR. WHEN LIGHT WAVES STRIKE THE SURFACE OF A MIRROR, THEY BOUNCE OFF ACCORDING TO THE LAW OF REFLECTION, WHICH DESCRIBES THE ANGLE OF INCIDENCE BEING EQUAL TO THE ANGLE OF REFLECTION. ANOTHER EXAMPLE IS THE REFRACTION OF LIGHT AS IT ENTERS WATER, WHERE THE WAVE BENDS DUE TO A CHANGE IN ITS SPEED.

Q: WHAT ROLE DO CONSERVATION LAWS PLAY IN ANALYZING PHYSICAL INCIDENTS?

A: CONSERVATION LAWS ARE FUNDAMENTAL TOOLS FOR ANALYZING PHYSICAL INCIDENTS BECAUSE THEY STATE THAT CERTAIN PHYSICAL QUANTITIES REMAIN CONSTANT THROUGHOUT THE INTERACTION. FOR INSTANCE, THE CONSERVATION OF MOMENTUM IS CRUCIAL FOR UNDERSTANDING HOW OBJECTS MOVE AFTER A COLLISION, AND THE CONSERVATION OF ENERGY HELPS TRACK ENERGY TRANSFORMATIONS DURING ANY PHYSICAL EVENT.

Q: IS THE TERM "INCIDENT" USED ONLY FOR DIRECT CONTACT BETWEEN OBJECTS?

A: NO, THE TERM "INCIDENT" IS NOT LIMITED TO DIRECT CONTACT. IT BROADLY REFERS TO ANY EVENT WHERE PHYSICAL ENTITIES INTERACT. THIS INCLUDES INTERACTIONS INVOLVING FORCES THAT ACT AT A DISTANCE, SUCH AS GRAVITATIONAL OR ELECTROMAGNETIC FORCES, WHERE OBJECTS INFLUENCE EACH OTHER WITHOUT PHYSICAL TOUCH. FOR EXAMPLE, A PLANET'S ORBIT IS A CONTINUOUS INCIDENT OF INTERACTION WITH A STAR'S GRAVITATIONAL FIELD.

Q: HOW ARE INCIDENTS STUDIED IN PARTICLE PHYSICS?

A: IN PARTICLE PHYSICS, INCIDENTS ARE STUDIED BY COLLIDING PARTICLES AT VERY HIGH ENERGIES USING PARTICLE ACCELERATORS. WHEN THESE PARTICLES COLLIDE, THEY BREAK APART, AND THE RESULTING DEBRIS IS DETECTED AND ANALYZED. BY STUDYING THE PRODUCTS OF THESE COLLISIONS, PHYSICISTS CAN INFER THE PROPERTIES OF THE ORIGINAL PARTICLES AND THE FUNDAMENTAL FORCES THAT GOVERN THEIR INTERACTIONS, ESSENTIALLY DISSECTING THE INCIDENT TO UNDERSTAND ITS UNDERLYING PHYSICS.

Q: WHAT IS AN EXAMPLE OF A STATISTICAL INCIDENT IN PHYSICS?

A: A STATISTICAL INCIDENT IN PHYSICS CAN BE OBSERVED IN THE KINETIC THEORY OF GASES. WHEN GAS MOLECULES COLLIDE WITH THE WALLS OF A CONTAINER, EACH INDIVIDUAL COLLISION IS A PHYSICAL INCIDENT. HOWEVER, THE OVERALL PRESSURE EXERTED BY THE GAS ON THE WALLS IS A MACROSCOPIC PROPERTY THAT EMERGES FROM THE STATISTICAL AVERAGE OF COUNTLESS SUCH MICROSCOPIC COLLISIONS OVER TIME.

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