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(POS-1) Absement Adventures: Mapping Motion in a Relational Universe

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This work explores a novel use of absement [L·T] within relational graph theory to model positional kinematics in a relationalistic framework. Unlike traditional vector-based approaches, this method employs rishtar elements—geometric constructs that encode relational distances or durations as object-oriented elements. Here, dimensional time evolution is discrete, universal, and mapped to finite relational distances.
Absement is treated as a mapping between two independent sets, length and time, forming [L·T]. This allows displacement to accumulate over a relational duration, enabling past positions to be identified statically. The model preserves absement's classical interpretation while integrating discrete changes—such as orbital phases or rotational states—into a geometric structure. To ensure consistency across multiple reference frames, relational graphs incorporate both spatial extensions and temporal durations.
A case study on lunar relational absement illustrates this approach, which models positional relationships without relying on force-based equations. By treating position evolution as a static property within a multiframe system, this method provides new perspectives for celestial mechanics, time synchronization, and universal reference frame modeling.

Keyword-1

Relational Graphs

Keyword-2

Absement

Keyword-3

Positional kinematics

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