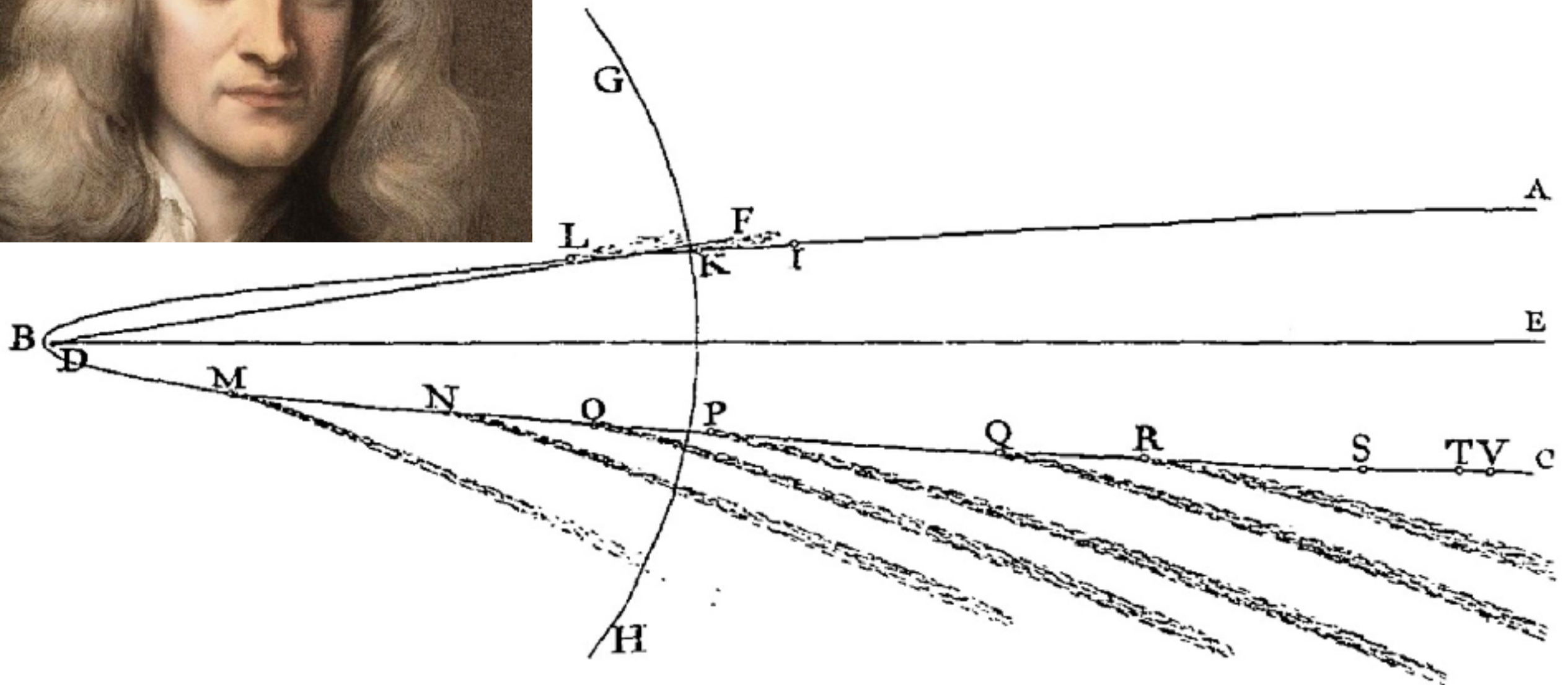
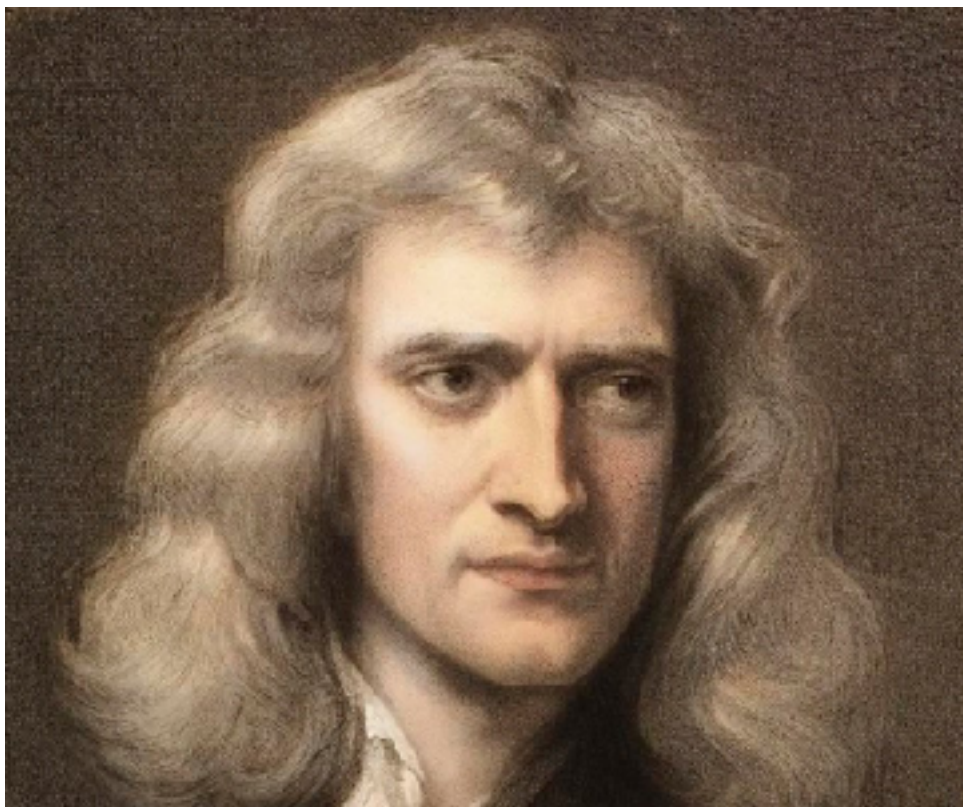




ISAAC'S KOMET

Keith Campbell



The orbit of the comet of 1680, fit to a [parabola](#), as shown in [Isaac Newton's *Principia*](#).

C/1680 is also called the [Great Comet of 1680](#), [Kirch's Comet](#), and [Newton's Comet](#), has the distinction of being the first [comet](#) discovered by [telescope](#).

Demo

- Metadata as a terminology dependency
- STAMP versioning underneath
- DAG representation of logical expressions

Import of ISAAC Metadata & SNOMED

Duplicate:

SememeChronology:Logic Graph

assemblage:EL++ stated form assemblage (ISAAC)

referenced component:CONCEPT: preferred (ISAAC)

Duplicate detected

Duplicates:

Root[0]→[3]

 Necessary[3]→[2]

 And[2]→[1]

 Concept[1] Acceptability (foundation metadata concept)

Root[0]→[3]

 Necessary[3]→[2]

 And[2]→[1]

 Concept[1] description acceptability (ISAAC)

Now what?

Reference expression:

Root[0r]→[3r]

Necessary[3r]→[2r]

And[2r]→[1r]

Concept[1r] Acceptability (foundation metadata concept)

Comparison expression:

Root[0c]→[3c]

Necessary[3c]→[2c]

And[2c]→[1c]

Concept[1c] description acceptability (ISAAC)

Isomorphic Analysis

Root[2i] → [1i]
Necessary[1i] → [0i]
And[0i]

Isomorphic solution:

[0r] → [0c] Root[0r] → [3r]
[1r] → ∅
[2r] → [2c] And[2r] → [1r]
[3r] → [3c] Necessary[3r] → [2r]

Reference expression:

Root[0r] → [3r]
Necessary[3r] → [2r]
And[2r] → [1r]
Concept[1r] Acceptability

Comparison expression:

Root[0c] → [3c]
Necessary[3c] → [2c]
And[2c] → [1c]
Concept[1c] description
acceptability

Contradiction Management

Additions:

Concept[1r] Acceptability (foundation metadata concept)

Deletions:

Concept[1c] description acceptability (ISAAC)

Shared relationship roots:

New relationship roots:

Concept[1] Acceptability (foundation metadata concept)

Deleted relationship roots:

Concept[1] description acceptability (ISAAC)

Merged expression:

Root[3m]→[2m]

Necessary[2m]→[1m]

And[1m]→[4m, 0m]

Concept[4m] description acceptability (ISAAC)

Concept[0m] Acceptability (foundation metadata concept)

Discussion Points

- STAMP versioning over graph objects
- Language/dialect represented by metadata concepts
 - HL7 FHIR terminology services harmonization
 - Enable multiple dialects
 - **Patient friendly**
 - **Medcin, IMO, et al.**
 - **Specialty specific (fundus...)**
 - Extensible in a standard way
- Standardize metadata terminology?