

# Humanism to Motion

1

## Humanism

secular concerns v. sacred ones

God hath endowed us with all of these abilities... let's USE THEM

MAJOR THEMES

2

## open rebellion

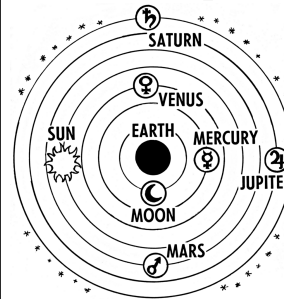
Desiderius Erasmus: "classical and scriptural works written by men"

The Reformation

95 Theses

3

## heavenly bodies

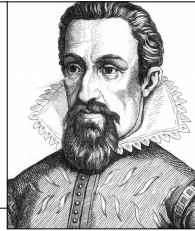


Copernicus: unified system

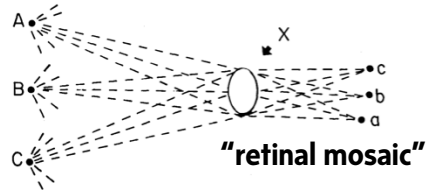


4

# Johannes Kepler



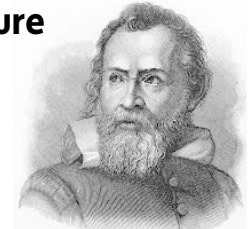
## Recall Alhazen... a cheat



Vision is the sense of the stimulated retina . . . To see is to be aware of the extent that the retina is stimulated. The retina is painted with colored rays of visible things. This picture or representation . . . does not complete the act of vision until the image so received by the retina passes . . . to the brain . . . Inside within the brain is something called the *sensus communis*, on which is impressed the image....

5

# Nature's Inherently Mathematical Nature



A phenomenon is knowable if:

- (i) nature's math is known and
- (ii) can be applied to the phenomenon.

physics  $\neq$  metaphysics

Is this within the proper domain of physics?

\* see Hobbes

6

# a science of conscious experience?

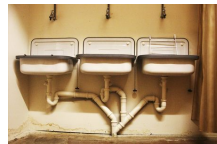
## Objective and subjective reality

*objective* exists independent of anyone's experience

*subjective* reality is personal

## Primary and secondary qualities

HOT WARM COLD



*Only primary qualities may be studied scientifically*

Properties prominent in our experiences are not there in the object, unless also prominent in science.

human experience inferior (human rationalism inferior too)

7