



EMERGENCE

THE EUCLID'S ELEMENTS

Research book or teaching work item ?

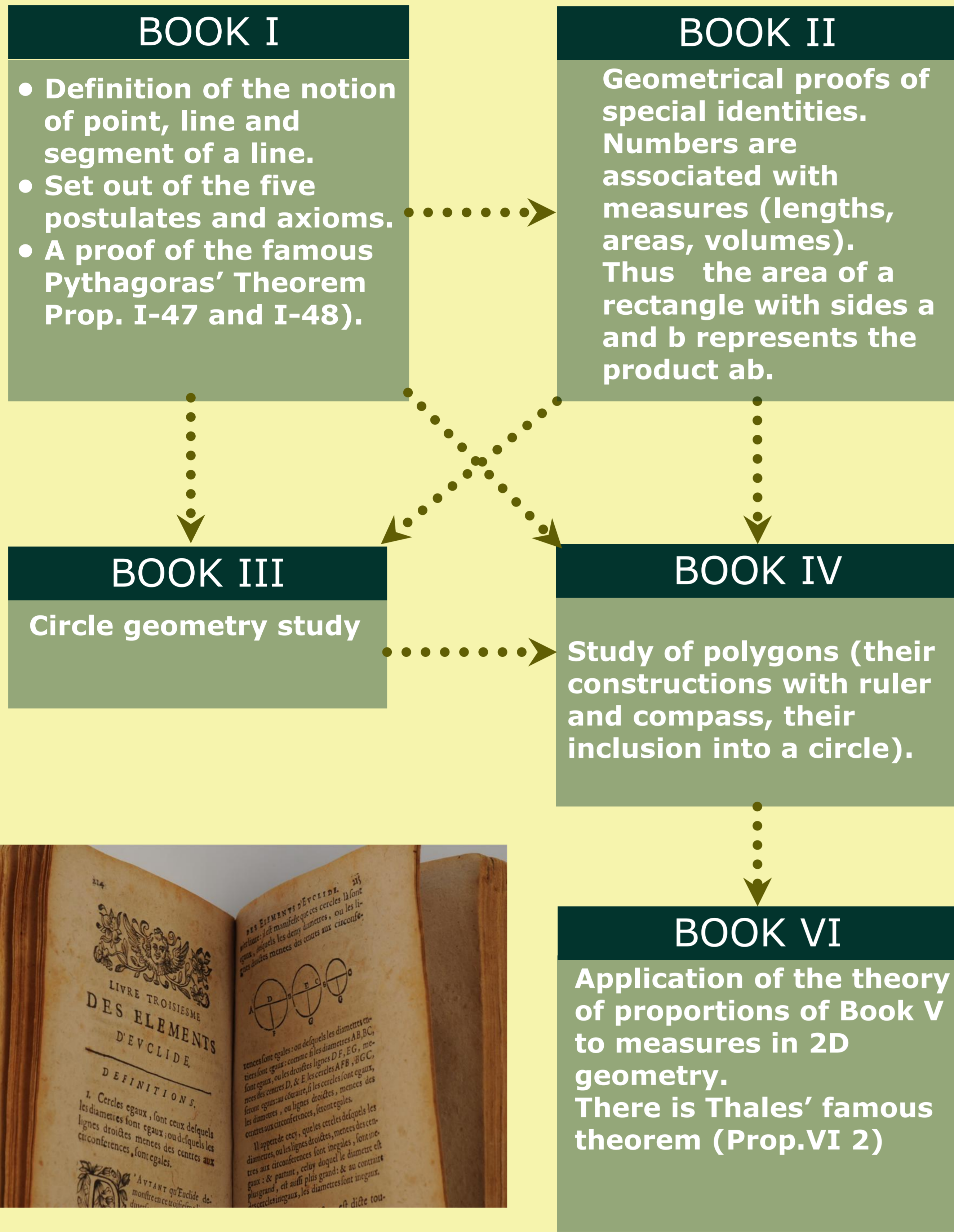
Architecture and some contents of the 13 volumes

Example : To set out and prove the propositions of Book IV, one must know those of books II and III

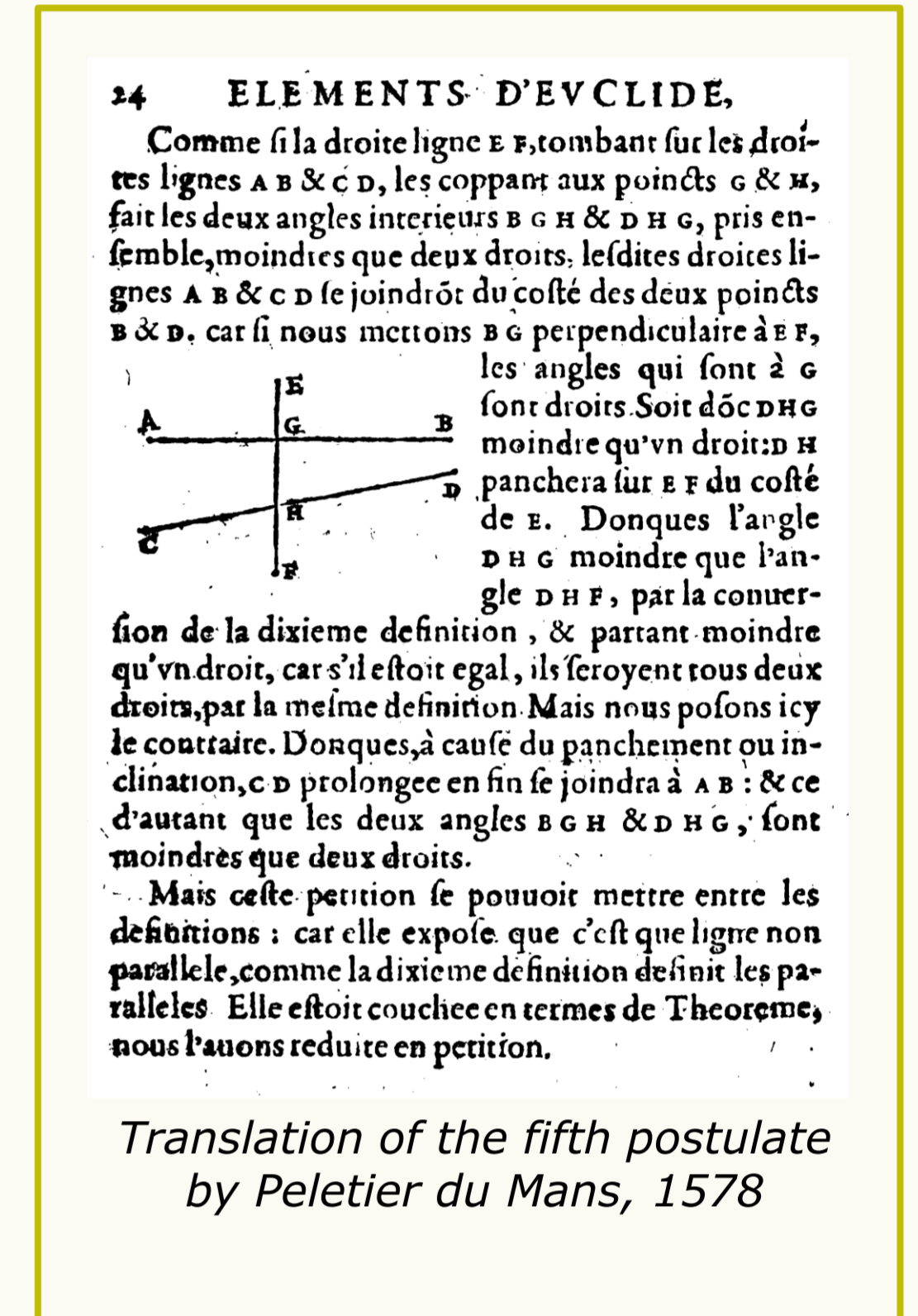
The Elements (*stoicheia*) consist of thirteen books (two other books are also attributed to Euclid) presenting basic knowledge in the sense that they are the core for numerous demonstrations.

Starting with definitions, axioms and five postulates, Euclid sets out propositions covering all areas of mathematics known at the time. He then chains proofs together, strictly following the logic principles founded by Aristotle.

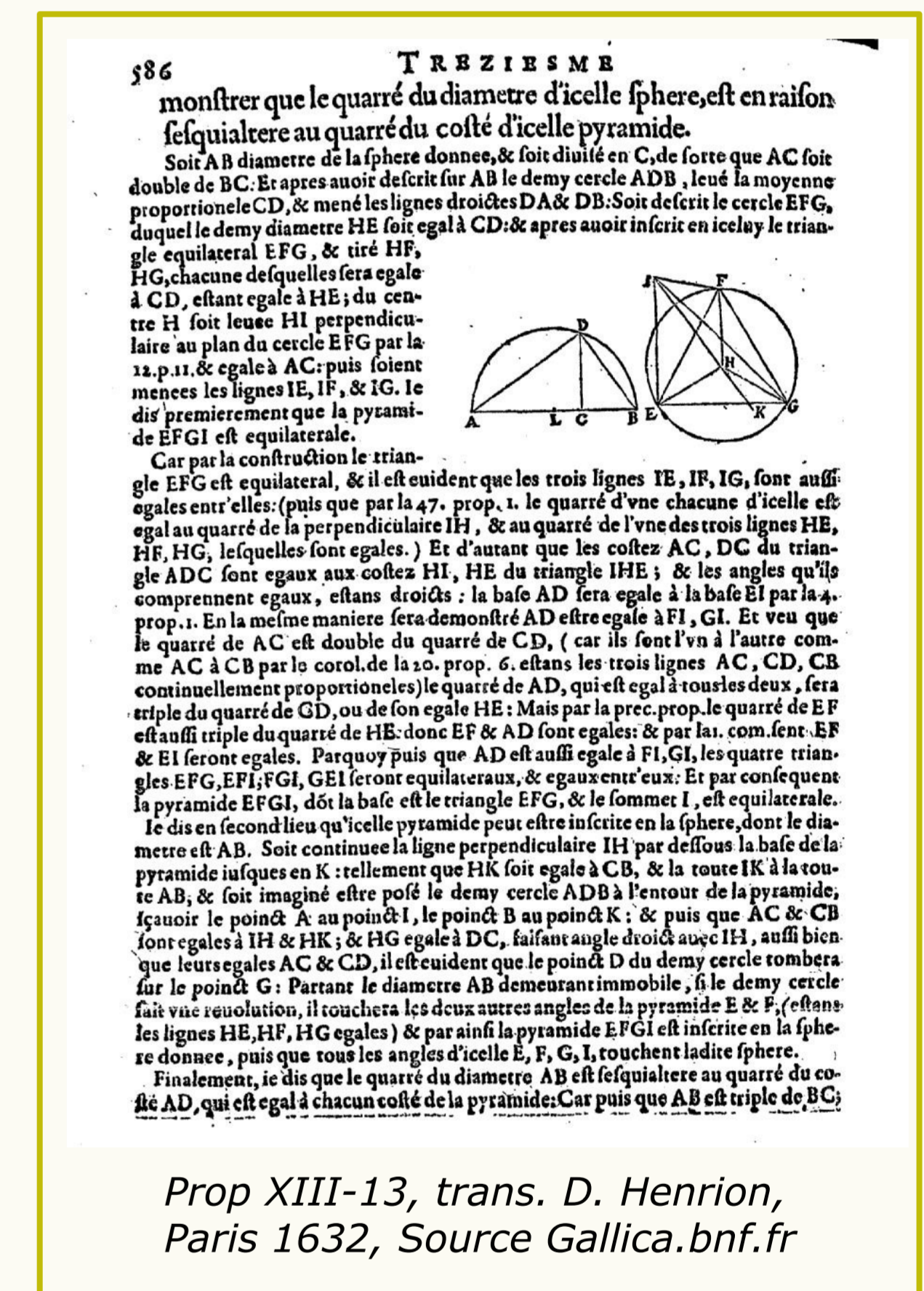
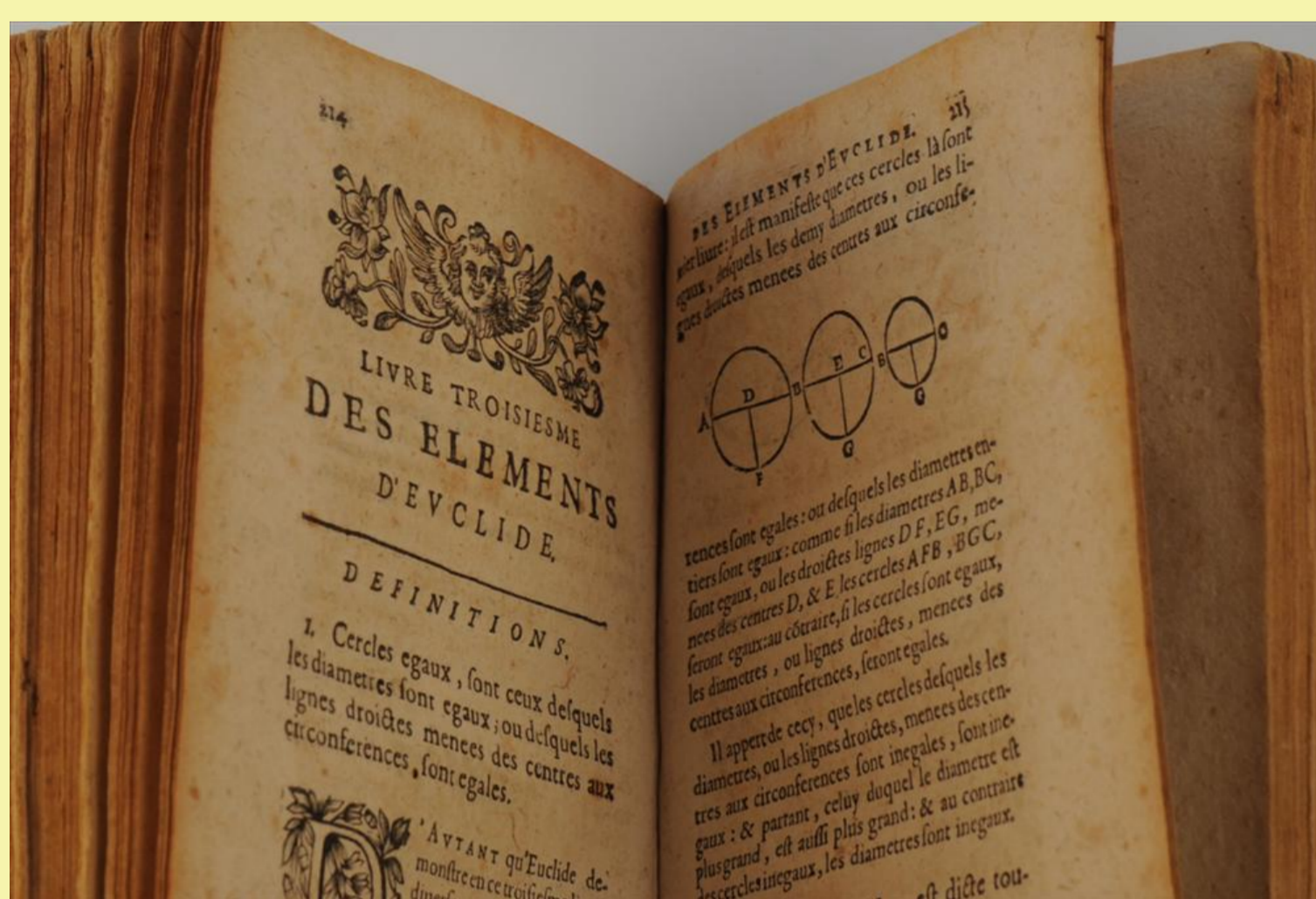
GEOMETRY



Text and proof of the prop. I-47. Codex Vaticanus

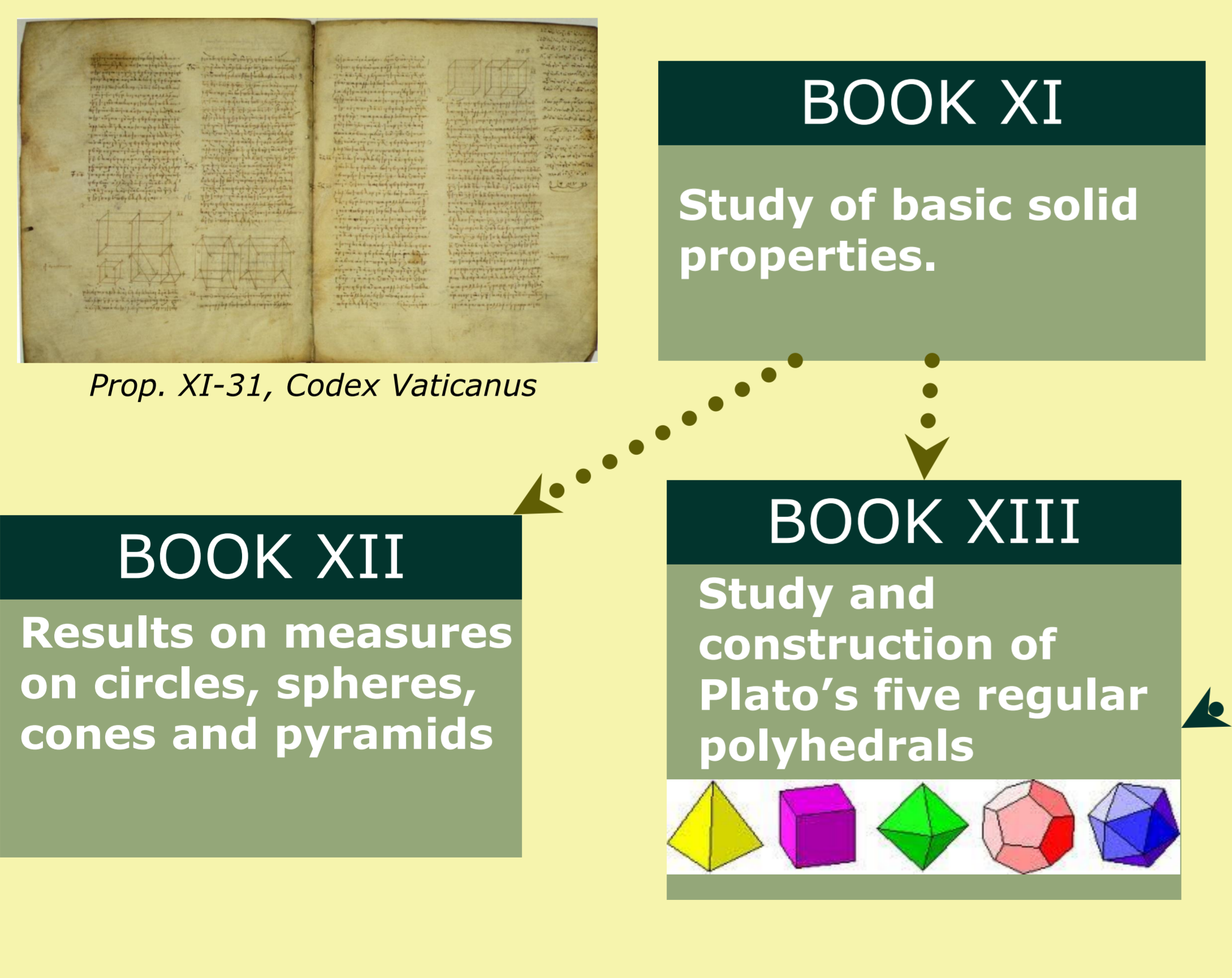


Translation of the fifth postulate by Peletier du Mans, 1578



Prop XIII-13, trans. D. Henrion, Paris 1632, Source Gallica.bnf.fr

STEREOMETRY



Prop. XI-31, Codex Vaticanus



Portrait of Euclid Juste de Gand (15th)

