

**Disciplina:** (FCH K52) *Tópicos especiais de filosofia da matemática I: Causalidade formal e material - Uma análise da filosofia da matemática do século XIII*

**Carga-horária:** 68h

**Prof.:** Marco Aurélio Oliveira da Silva

### **Justificativa**

A descoberta do Mss. Wien, Dominikanerkloster 80/45, editado por Tummers (1984; 2014), permite ressignificar a tese apresentada por Alberto Magno segundo a qual a demonstração matemática dependeria de causalidade formal e material. Ou seja, a prática matemática, que depende do recurso a diagramas, não se reduziria apenas à demonstração silogística a partir da definição (causalidade formal), mas dependeria também da visualização do diagrama para a demonstração de determinadas tese, como no famoso primeiro teorema de Euclides.

Neste sentido, depois do comentário inaugural no ocidente aos *Analytica Posteriora* de Aristóteles, feito por Roberto Grosseteste, temos, na sequência, os de Roberto Kilwardby, Alberto Magno e Tomás de Aquino. Contudo, um traço marcante nos dois últimos é a total rejeição ao platonismo em se tratando de entidades matemáticas. O que o atual curso pretende investigar é até que ponto a recepção da tradução de Geraldo de Cremona ao comentário de Al-Nayrizi aos *Elementos* pode ter influenciado esta visão mais construtiva da geometria em Alberto Magno, o que se pode observar tanto no seu comentário a Euclides, quanto nos comentários a Aristóteles.

### **Programa:**

- (1) Platonismo de Roberto Grosseteste e Roger Bacon;
- (2) Roberto Kilwardby, lógica e filosofia da matemática;
- (3) A recepção de Al-Nayrizi, Euclides e Aristóteles;
- (4) Alberto Magno, causalidade formal e causalidade material;
- (5) Teoria da ciência em Tomás de Aquino.

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**Bibliografia adicional será fornecida ao longo do curso.**

**Observação:** Conhecimento de latim é desejável, mas conhecimento de inglês é imprescindível para acompanhar o curso.