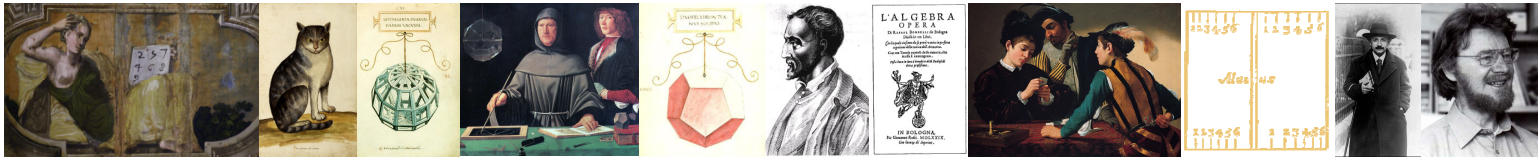


# THE ART OF SCIENCE



SCUOLA SUPERIORE DI STUDI UMANISTICI – VIA MARSALA 26, BOLOGNA

19 November

## Bologna and Scientific Humanism

10.00 Welcome from

*Magnifico Rettore*

*Prorettore alla Ricerca*

*Direttore Dipartimento di Filosofia*

10.20 Introduction

11.00 *Martin Kemp*

"Continuous Quantities": the primacy of geometry in Renaissance art from a Leonardesque perspective

11.45 *Argante Ciocci*

Pacioli e Dürer a Bologna:

*la secretissima scientia e la divina proportione*

12.30 *Pierre Caye*

Pour un humanisme du quadrivium

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15.30 *Maria Conforti*

Visual and non-visual in Renaissance medicine

16.15 *Lucia Corrain*

Ulisse Aldrovandi: la natura e il suo doppio

17.00 *Florence Malhomme*

La science musicale et les arts au Cinquecento

17.45 *Umberto Bottazzini*

Tra reale e immaginario: dalle radici sofistiche ai numeri complessi

20 November

## From *Ars Magna* to Quantum Physics

10.00 Introduction

10.15 *Veronica Gavagna*

The meaning of *Ars magna* in Cardano's mathematical work

11.00 *Lambert Williams*

Chance, complex numbers, and the heuristic art of Girolamo Cardano

11.45 *J. V. Field*

Algebra and the art of getting answers

12.30 *John Stillwell*

From perspective drawing to the eighth dimension

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15.30 *George Sparling*

A primordial approach to unifying quantum mechanics and relativity

16.15 *Jean Dhombres*

From the fundamental theorem of algebra to the Heisenberg relations: the role of complex numbers in physics

17.00 *Michel Bitbol*

Why is quantum mechanics a probabilistic theory?

17.45 *Artur Ekert*

Why quantum theory needs complex numbers

in collaborazione con PRIN 2007: *Seguire una regola, modificare le regole*

*Annarita Angelini & Rossella Lupacchini*  
Dipartimento di Filosofia, Università di Bologna

