

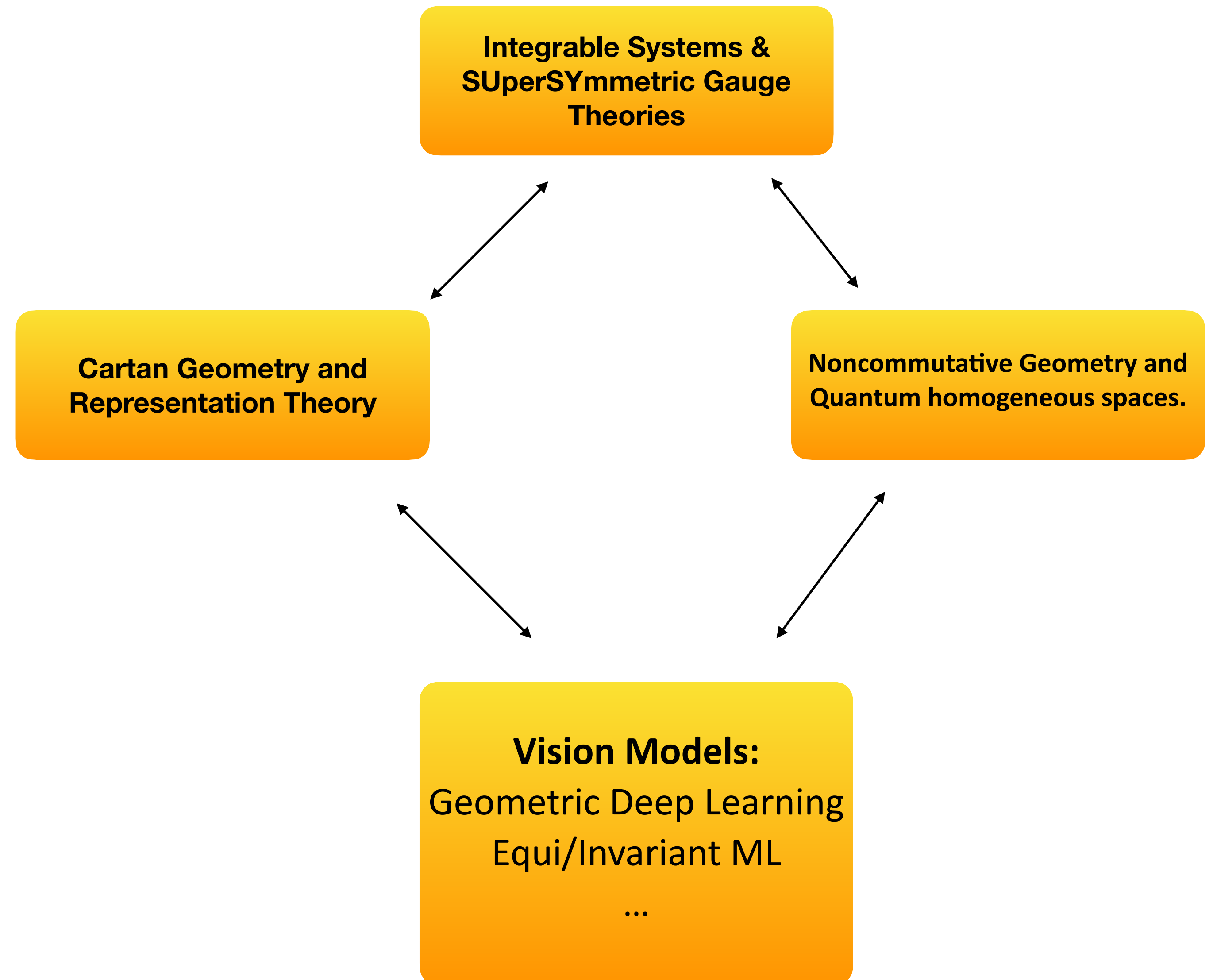
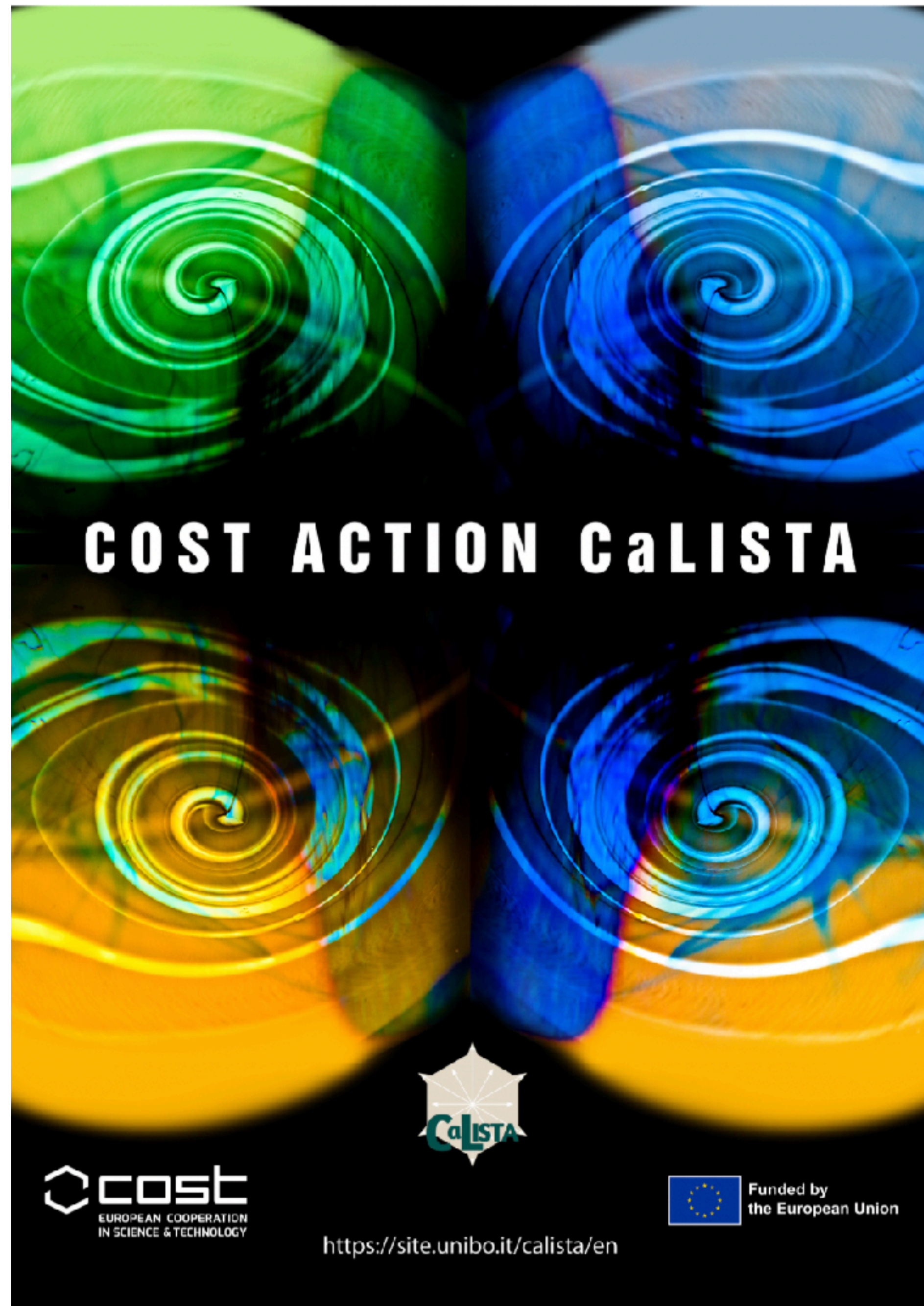


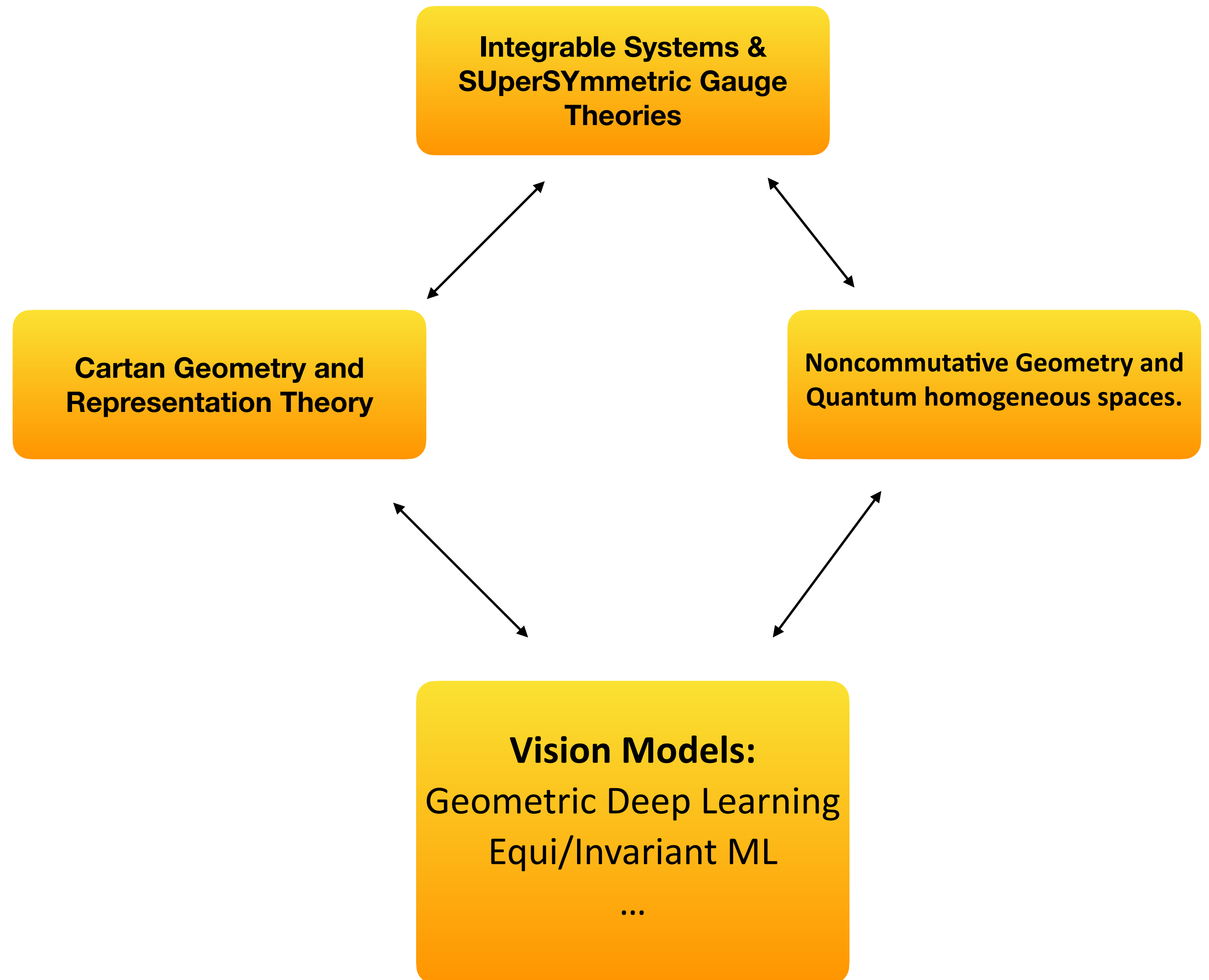
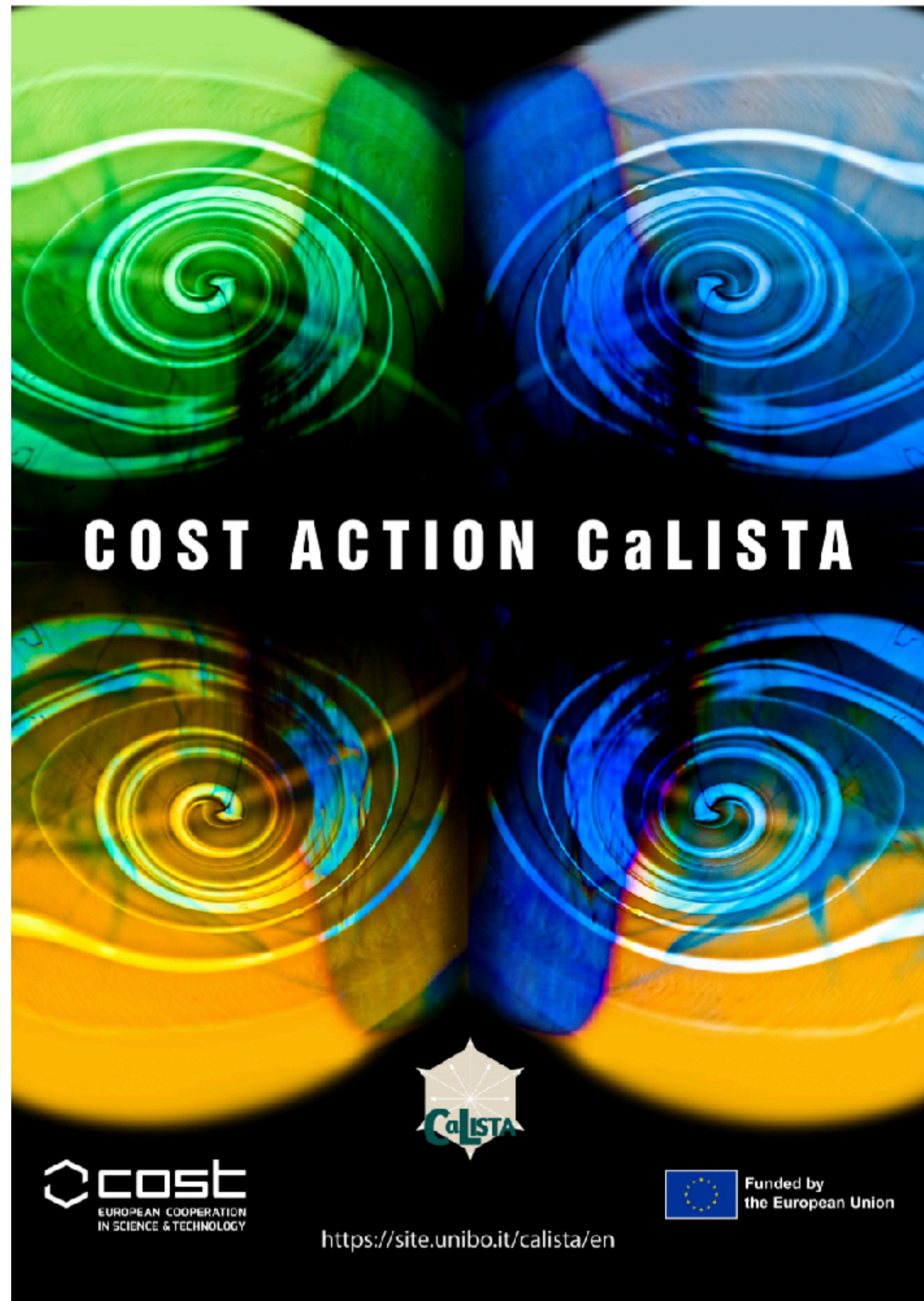
Workshop Geometry-Informed Machine Learning

September 2-5 2024
Mines Paris / PSL

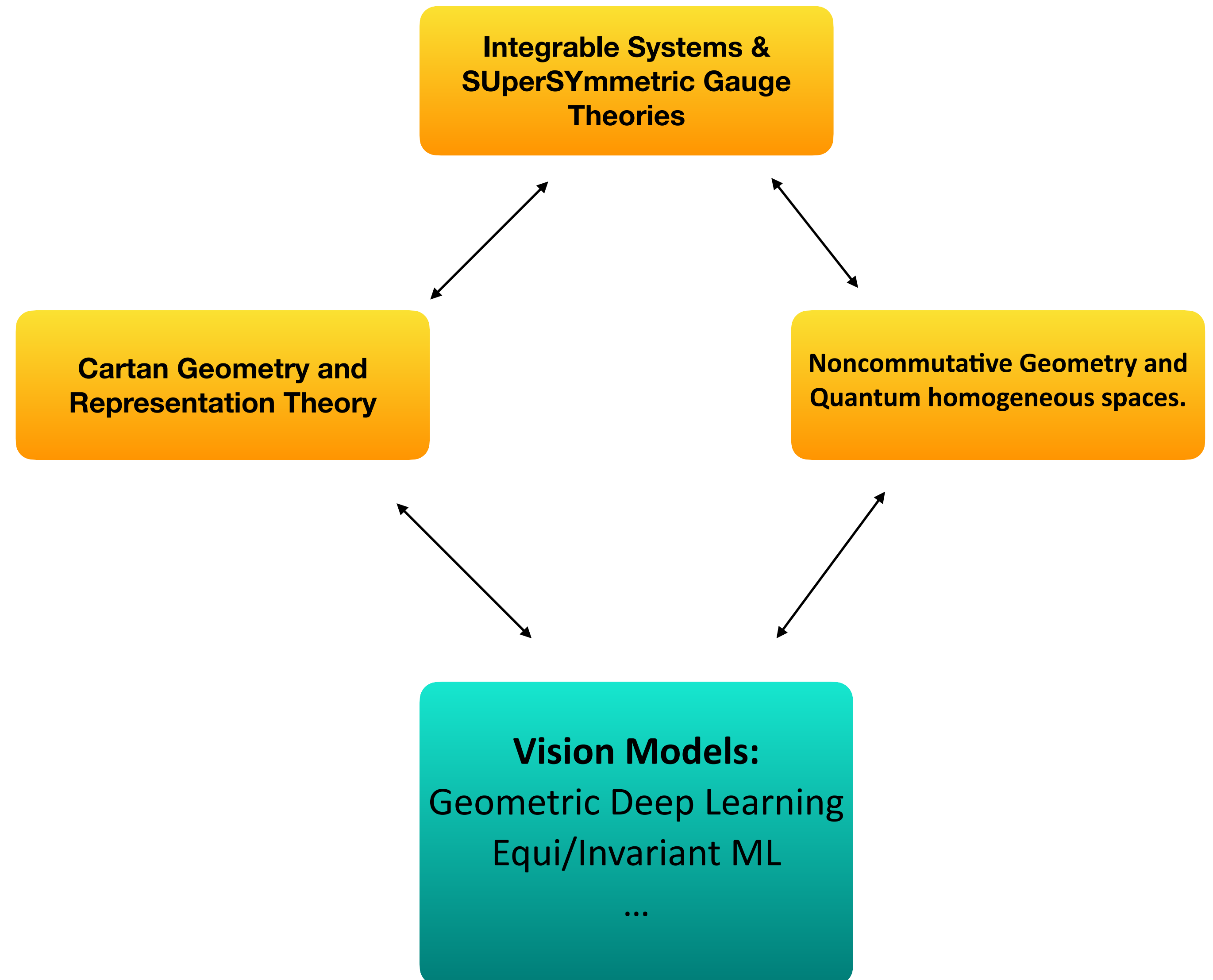
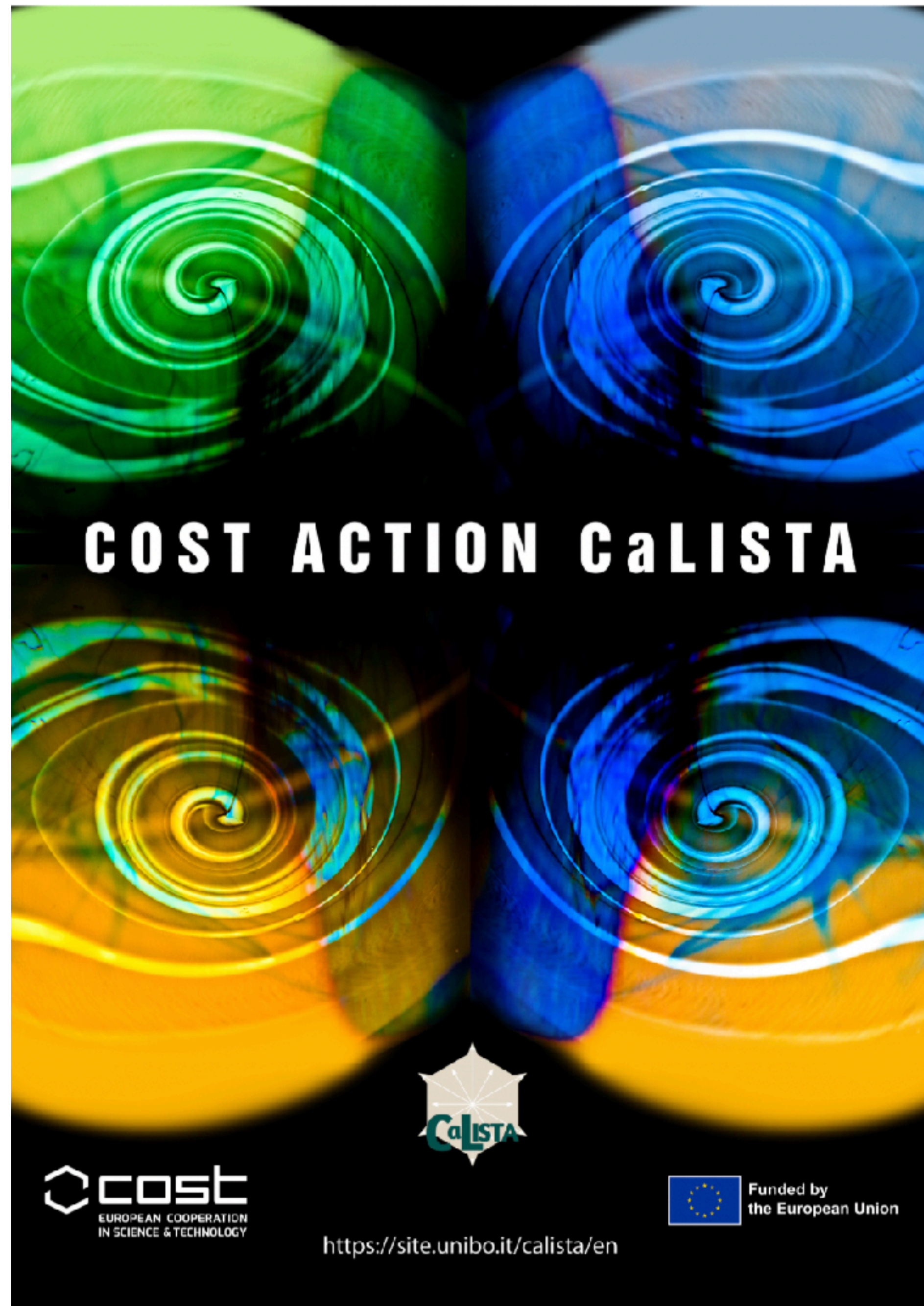
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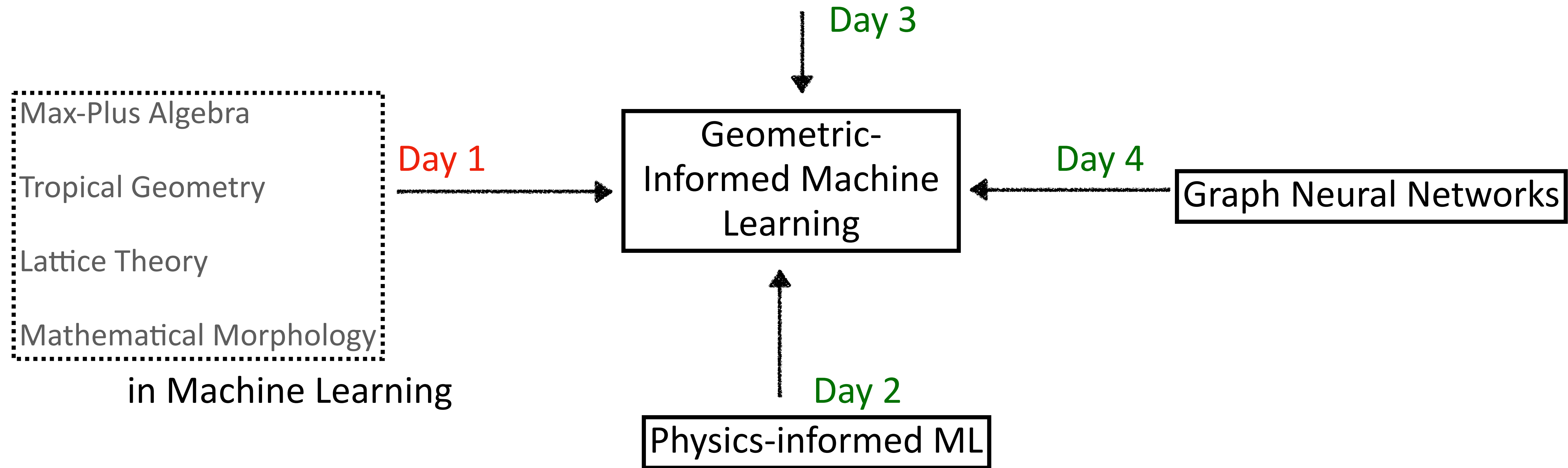




Action Chair: **Rita Fioresi**



Symmetry and Equivariance in Deep Learning



Mines Paris / PSL

The “École des Mines de Paris” was founded in **1783** (by order of King Louis XVI), at a time when mining was the high-tech industry par excellence, and the focus was on personnel safety, economic planning and access to rare or strategic raw materials.

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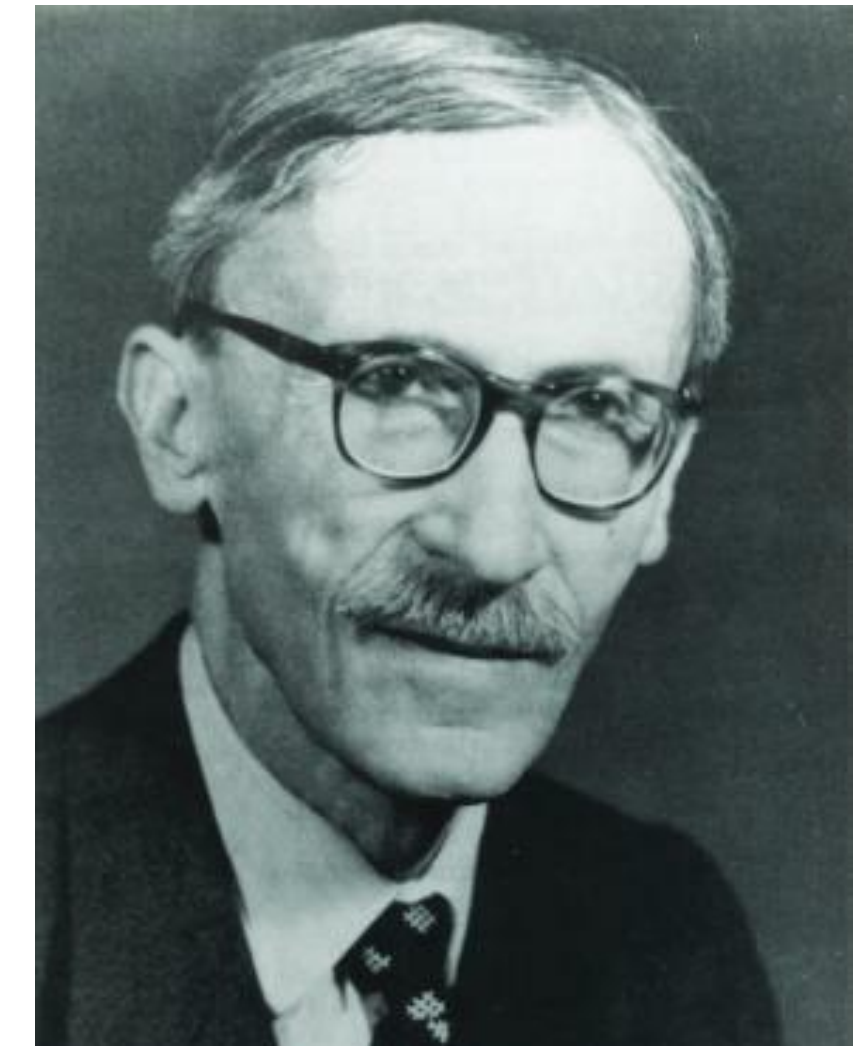
Maurice Allais, Nobel Prize
In Economics (1988)



George Charpak, Nobel
Prize In Physics (1992)



Henri Poincaré
(1854-1912)



Paul Lévy
(1886-1971)

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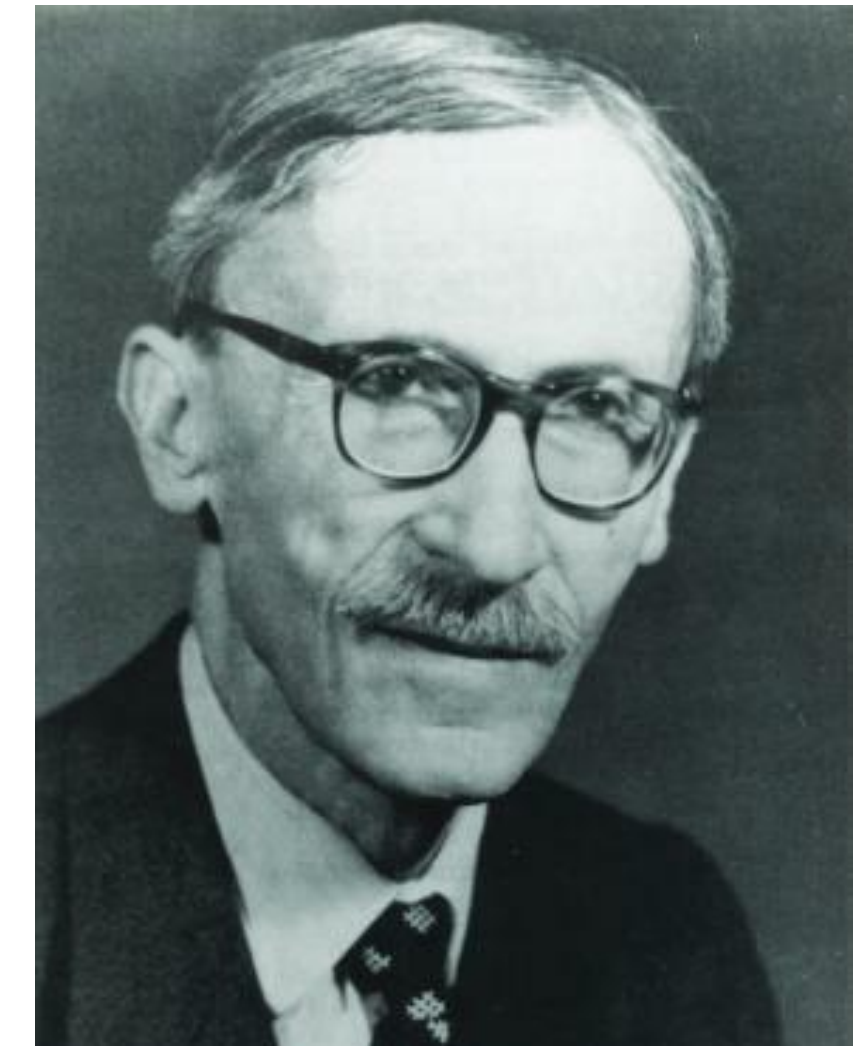
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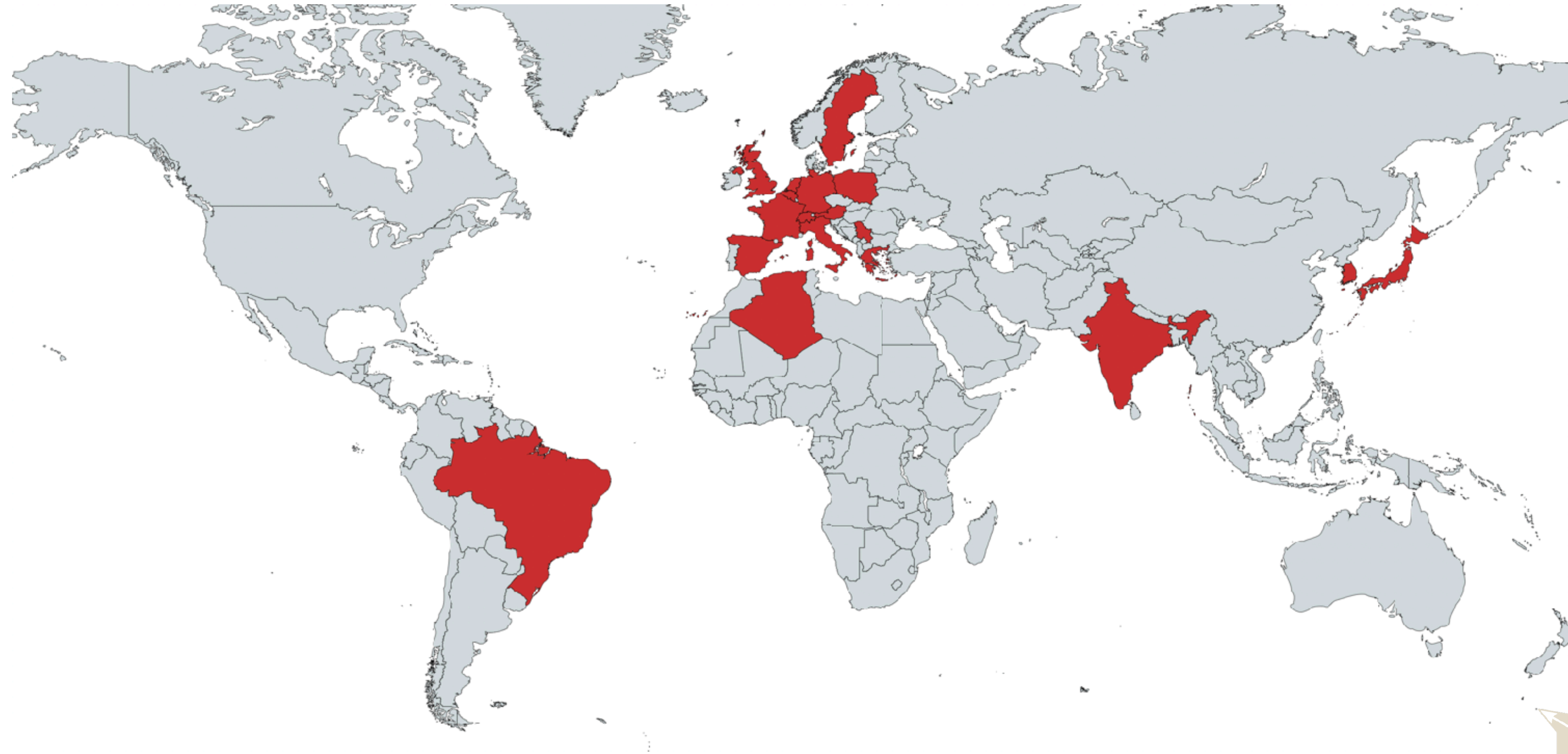
Paul Lévy
(1886-1971)

Museum of Mineralogy



CaLISTA Workshop Geometry-Informed Machine Learning

Paris, September 2-5





Irena Vaňatová

Department of Numerical Mathematics,
Faculty of Mathematics and Physics,
Charles University, Czech Republic



Jesús Gustavo ANGULO

Centre for Mathematical Morphology
Mines Paris - PSL Research University



Anne-Marie DE CASTRO

Centre for Mathematical Morphology
Mines Paris - PSL Research University



Frédéric BARBARESCO

Thales - France

MaxPlus Algebra, Tropical Geometry and Mathematical Morphology in Deep Learning



Jean-Pierre Bourguignon

Institut des Hautes Études Scientifiques
Bures-Sur-Yvette, France



Petros Maragos

National Technical University of Athens,
Greece



Stéphane Gaubert

INRIA-CMAP, École Polytechnique,
France



Marcos Eduardo Valle

University of Campinas, Brazil



Jesus Gustavo Angulo

Mines Paris / PSL, France

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Stéphane Gaubert

INRIA-CMAP, École Polytechnique,
France

10:00 - 10:30 Coffee Break +++
12:30 - 14:00 Lunch (Not included)
16:00 - 18:00 Poster Session (+ Coffee)



Marcos Eduardo Valle

University of Campinas, Brazil



Jesus Gustavo Angulo

Mines Paris / PSL, France

A historical perspective on the Calculus of Variations and its links with geometry



Jean-Pierre Bourguignon

Institut des Hautes Études Scientifiques
Bures-Sur-Yvette, France

Director de l'IHES 1994-2013

Emeritus Professor Nicolaas Kuiper at IHES since 2013

Jean-Pierre Bourguignon is an engineer from the École Polytechnique (1966) and holds a doctorate in mathematics from the University of Paris VII (1974). His main field of interest is differential geometry, particularly as it relates to partial differential equations and mathematical physics.

Jean-Pierre Bourguignon is particularly interested in Ricci curvature, both in its mathematical aspects and in the role it plays in general relativity.

Prix Paul Langevin from the Académie des Sciences de Paris (1987)

Prix du rayonnement français pour les sciences physiques et mathématiques (1997)

Member of the Academia Europaea (1995)

Member of the Spanish Royal Academy of Sciences (2001)

Honorary member of the London Mathematical Society (2005)

Doctoral honoris causa from Keio University, Japan (2008)

Doctoral honoris causa from Nankai University, Tianjin, China (2011)

Honorary member of the Deutsche Mathematiker Vereinigung (2017)

Foreign member of the Portuguese Academy of Sciences (2017)

Doctoral honors causa from the University of Edinburgh (2018)

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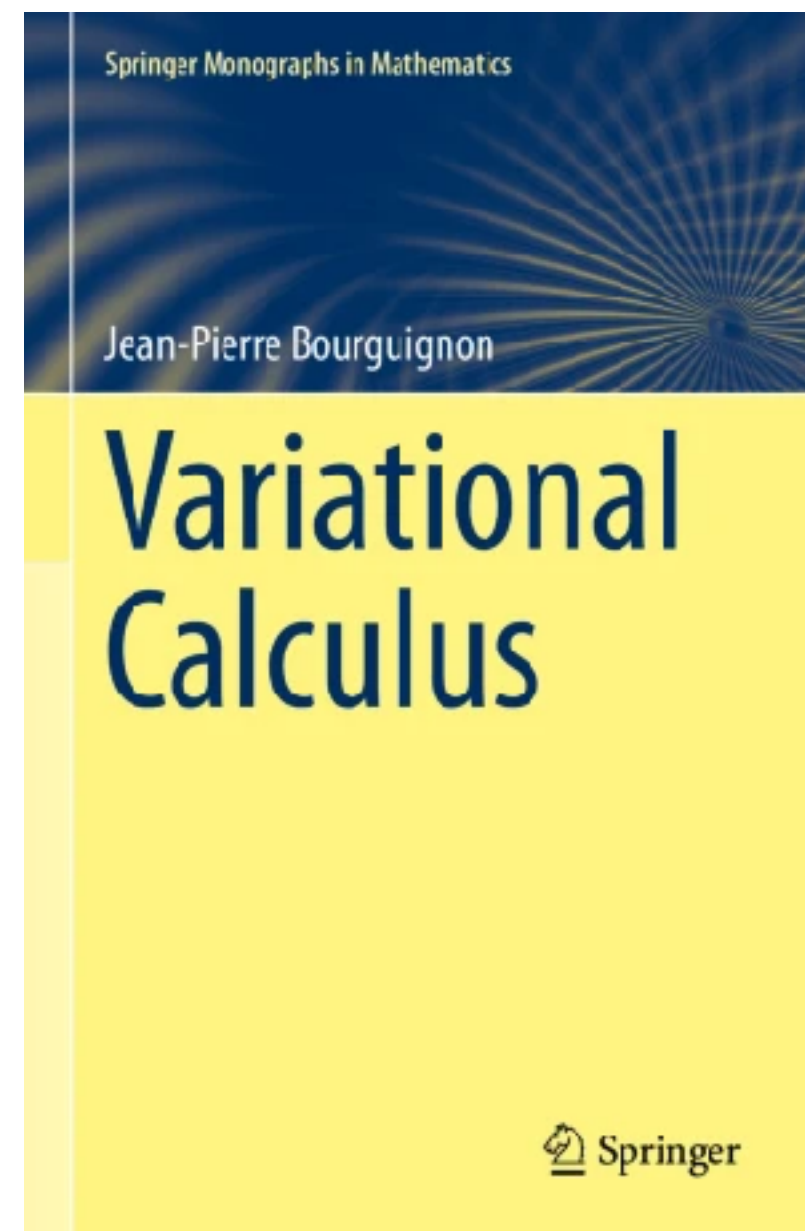
Order of the Rising Sun, Gold and Silver Star, Japan (2022)

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