



# Programme

COLLÈGE  
DE FRANCE

2013/2014

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• Lectures are open to all, without registration and subject to seat availability. Teaching begins from 1 October. Lecture halls and classrooms open no earlier than 20 minutes before the lectures and seminars start.

• Possible changes to this programme will be posted on our website: [www.college-de-france.fr](http://www.college-de-france.fr)

Teaching research in the making to everyone, facilitating the dissemination of knowledge, promoting the emergence of new disciplines and a multidisciplinary approach to top-level research, and contributing to France's scientific and cultural influence: these are the missions that the Collège de France has fulfilled for nearly five centuries. In a constantly changing world, confronted as we are with an explosion of knowledge, a wealth of information and new communication technologies, and with the need to adapt socially and professionally to them, these missions are more crucial than ever before.

This programme presents lectures and seminars delivered in Paris by the Collège de France's professors. Further details on symposia and lectures delivered throughout the academic year by visiting professors from abroad at the Collège de France, and by Collège de France's professors elsewhere in France or abroad, are available on our website.

Serge HAROCHE  
*Administrateur*



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All lectures are available at  
[www.college-de-france.fr](http://www.college-de-france.fr)

# Lectures and Seminars

## Mathematical, Physical and Natural Sciences

REF.

<b>Analysis and Geometry</b> – Alain CONNES Lecture series: The Epicyclic Site	Thursdays at 2:30 p.m. (first lecture 9 January)	1
<b>Differential Equations and Dynamical Systems</b> – Jean-Christophe YOCCOZ Lecture series: Aspects of the Theory of Quasiperiodic Dynamical Systems	Wednesdays at 10 a.m. (first lecture 30 April)	2
<b>Partial Differential Equations and Applications</b> – Pierre-Louis LIONS Lecture series: Elliptic or Parabolic Equations, and Improved Homogenization <i>Seminar: Applied Mathematics</i>	Fridays at 9 a.m. (first lecture 8 November) <i>Fridays at 11:15 a.m. (first seminar 8 November)</i>	3
<b>Number Theory</b> – Don ZAGIER Lecture series: Modular Forms and Representations of Finite Groups	Mondays at 4:15 p.m. (first lecture 7 October)	4
<b>Algorithms, Machines and Languages</b> – Gérard BERRY Lecture series: Multiple Clocks, Discrete Time and Continuous Time <i>Seminar: Linked to the topics covered in the lectures</i>	Wednesdays at 4 p.m. (first lecture 5 March) <i>Wednesdays at 5 p.m. (first seminar 5 March)</i>	5
<b>Quantum Physics</b> – Serge HAROCHE Lecture series: The Control of Single Quantum Particles - Part II <i>Seminar: Linked to the topics covered in the lectures</i>	Tuesdays at 9:30 a.m. (first lecture 25 March) <i>Tuesdays at 11 a.m. (first seminar 25 March)</i>	6
<b>Atoms and Radiation</b> – Jean DALIBARD Lecture series: Artificial Magnetism for Cold Atom Gases <i>Seminar: Linked to the topics covered in the lectures</i>	Wednesdays at 9:30 a.m. (first lecture 14 May) <i>Wednesdays at 11:30 a.m. (first seminar 14 May)</i>	7
<b>Physics of Condensed Matter</b> – Antoine GEORGES Lecture series: Small Thermoelectric Systems: Mesoscopic Conductors and Cold Atom Gases <i>Seminar: Linked to the topics covered in the lectures</i>	Tuesdays at 9:30 a.m. (first lecture 5 November) <i>Tuesdays at 10:45 a.m. (first seminar 5 November)</i>	8
<b>Physics of the Earth's Interior</b> – Barbara ROMANOWICZ Lecture series: The Lithosphere-Asthenosphere System: its Structure, Development and Role in the Global Dynamic of the Earth's Mantle <i>Seminar: The Structure and Dynamic of the Lithosphere-Asthenosphere System, Symposium</i>	Mondays at 2:30 p.m. (first lecture 7 October) <i>Tuesday 19 November and Wednesday 20 November from 9 a.m. to 6 p.m.</i>	9
<b>Climate and Ocean Evolution</b> – Édouard BARD Lecture series: The Ocean and Climate Change: Carbon Cycle Feedback <i>Seminar: Linked to the topics covered in the lectures, Symposium</i>	Fridays at 3 p.m. (first lecture 14 February) <i>Friday 16 May from 9 a.m. to 6 p.m.</i>	10
<b>Observational Astrophysics</b> – Antoine LABEYRIE No Lectures series in 2013-2014		11
<b>Chemistry of Materials and Energy</b> – Jean-Marie TARASCON <i>Inaugural Lecture: Thursday 23 January, 6 p.m.</i> Lecture series: Materials Chemistry: From the Atom to Materials for Energy <i>Seminar: Linked to the topics covered in the lectures</i>	Mondays at 4:30 p.m. (first lecture 3 February) <i>Mondays at 5:30 p.m. (first seminar 3 February)</i>	12
<b>Chemistry of Hybrid Materials</b> – Clément SANCHEZ Lecture series: Interfaces Between Materials Chemistry, Biology and Medicine <i>Seminar: Linked to the topics covered in the lectures</i>	Wednesdays at 4 p.m. (first lecture 13 November) <i>Wednesdays at 5 p.m. (first seminar 13 November)</i>	13
<b>Chemistry of Biological Processes</b> – Marc FONTECAVE Lecture series: From CO <sub>2</sub> to Hydrocarbons, a Positive Reversal <i>Seminar: Linked to the topics covered in the lectures</i>	Wednesdays at 10 a.m. (first lecture 5 March) <i>Wednesdays at 11 a.m. (first seminar 5 March)</i>	14
<b>Human Genetics</b> – Jean-Louis MANDEL No Lectures series in 2013-2014		15
<b>Genetics and Cellular Physiology</b> – Christine PETIT Lecture series: The Auditory System and the Threats Facing it <i>Seminar: Linked to the topics covered in the lectures</i>	Thursdays at 10 a.m. (first lecture 6 February) <i>Thursdays at 11:30 a.m. (first seminar 6 February)</i>	16
<b>Epigenetics and Cellular Memory</b> – Edith HEARD Lecture series: Reprogramming in Development and Disease <i>Seminar 1: Linked to the topics covered in the lectures</i> <i>Seminar 2: Linked to the topics covered in the lectures, Symposium</i>	Mondays at 4 p.m. (first lecture 10 March) <i>Friday 14 March, Monday 17 and 24 March at 5:30 p.m.</i> <i>Monday 26 May from 9 a.m. to 6 p.m.</i>	17
<b>Morphogenetic Processes</b> – Alain PROCHIANTZ Lecture series: Cerebral Longevity <i>Seminar 1: Linked to the topics covered in the lectures, Symposium</i> <i>Seminar 2: Linked to the topics covered in the lectures, Symposium</i>	Mondays at 5 p.m. (first lecture 7 October) <i>Tuesday 29 April from 9 a.m. to 6 p.m.</i> <i>and Wednesday 30 April from 9 a.m. to 1 p.m.</i> <i>and Tuesday 13 May from 9 a.m. to 6 p.m.</i>	18

<b>Microbiology and Infectious Diseases – Philippe SANSONETTI</b> Lecture series: The “Microbiome”: the Hidden Face of the “Microbe-Man” Planet <i>Seminar 1: Linked to the topics covered in the lectures</i> <i>Seminar 2: Microbiome and Nutrition, Symposium in English</i>	Wednesdays at 4 p.m. (first lecture 11 December) <i>Wednesdays at 5:30 p.m. (first seminar 11 December)</i> <i>Monday 2 June and Tuesday 3 June from 9 a.m. to 6 p.m</i>	19
<b>Experimental Cognitive Psychology – Stanislas DEHAENE</b> No lectures series in 2013-2014		20
<b>Experimental Medicine – M.</b>		21

## Human and Sociological Sciences

REF.

<b>Pharaonic Civilization: Archaeology, Philology, History – Nicolas GRIMAL</b> Lecture series: The Temple of Amun-Ra at Karnak (conclusion) <i>Seminar: The Annals of Thutmose III (cont.)</i>	Mondays at 2 p.m. (first lecture 6 January) <i>Mondays at 3 p.m. (first seminar 6 January)</i>	22
<b>The Hebrew Bible and its Contexts – Thomas RÖMER</b> Lecture series: The Book of Exodus: Myths and Stories <i>Seminar: From Gods to Man: Angels, Demons et al., Symposium</i>	Thursdays at 2 p.m. (first lecture 20 February) <i>Monday 19 May and Tuesday 20 May from 9 a.m. to 6 p.m</i>	23
<b>Mesopotamian Civilization – M.</b>		24
<b>Epigraphy and History of the Ancient Greek Cities – Denis KNOEPFLER</b> Lecture series: Emperor Hadrian and the Greek Cities: an Appraisal after Half a Century of Major Epigraphical Discoveries <i>Seminar: Imperial Letters From the Reign of Hadrian</i>	Fridays at 9:45 a.m. (first lecture 21 February) <i>Fridays at 11 a.m. (first seminar 21 February)</i>	25
<b>Religion, Institutions and Society in Ancient Rome – John SCHEID</b> Lecture series: Gods of Rome and Gods of the Romans. Reflections on Roman Theologies <i>Seminar 1: Gaetano Marini and the Acta of the Arval Brethren</i> <i>Seminar 2: Temples in Gaul and Italy. New Excavations and Discoveries, Symposium</i>	Thursdays at 2:30 p.m. (first lecture 7 November) <i>Thursdays 19 December, 9 and 16 January at 4 p.m. and Friday 31 January from 9:30 a.m. to 6:30 p.m</i>	26
<b>Techniques and Economies in the Ancient Mediterranean – Jean-Pierre BRUN</b> Lecture series: Trade Between the Roman Empire, Arabia and India in the Light of Archeological Excavations in the Eastern Egyptian Desert <i>Seminar: Linked to the topics covered in the lectures</i>	Tuesdays at 10 a.m. (first lecture 15 October) ▲ <i>Tuesdays at 10 a.m. (first seminar 22 October) ▲</i>	27
<b>History and Culture of Pre-Islamic Central Asia – Frantz GRENET</b> <i>Inaugural Lecture: Thursday 7 November, 6 p.m.</i> Lecture series: The Urban Phenomenon in Pre-Islamic Central Asia: Diachronic and Synchronic Approaches <i>Seminar: Linked to the topics covered in the lectures</i>	Thursdays at 2:30 p.m. (first lecture 14 November) <i>Thursdays at 3:30 p.m. (first seminar 14 November)</i>	28
<b>Indo-Iranian Languages and Religions – Jean KELLENS</b> Lecture series: Twenty Years of Avestan and Mazdeist Studies <i>Seminar: Comparison of Sources Relating to the Achaemenid Religion, Symposium</i>	Fridays at 9:30 a.m. (ouverture 15 November) <i>Thursday 7 November and Friday 8 November from 9 a.m. to 6 p.m</i>	29
<b>Intellectual History of China – Anne CHENG</b> Lecture series: Is Confucianism a Humanism? <i>Seminar 1: Readings of the Book of Rites (Liji)</i> <i>Louis Massignon room (52, rue du Cardinal-Lemoine, 75005 Paris)</i> <i>Seminar 2: Readings of Su Shi's Commentary on the Zhouyi (cont.)</i> <i>Louis Massignon room (52, rue du Cardinal-Lemoine, 75005 Paris)</i> <i>Seminar 3: The Book of Changes (Zhouyi) Under the Song Dynasty: Erudite and Popular Usage, Symposium</i> N.B. : A good knowledge of classical Chinese is required for this seminar.	Thursdays at 11 a.m. (first lecture 5 December) <i>Thursdays at 3 p.m. (first seminar 5 December)</i>  <i>Thursdays at 4:30 p.m. (first seminar 5 December)</i>  <i>Thursday 21 November and Friday 22 November from 9 a.m. to 5 p.m</i>	30
<b>History of Modern China – Pierre-Étienne WILL</b> Lecture series: Autobiography and History, 1600-1930 (cont.) <i>Seminar: The Penal Code and Everyday Justice Administration in Ming and Qing China, Symposium</i>	Wednesdays at 2 p.m. (first lecture 22 January) <i>Thursday 22 May and Friday 23 May, from 9 a.m. to 5 p.m</i>	31
<b>Philology of Japanese Civilization – Jean-Noël ROBERT</b> Lecture series: The Esotericism of the Tongue: Kūkai's (774-835) Ideas on Language <i>Seminar: Reading of Original Texts by Kūkai Relating to the Lecture Series</i> N.B. : A good knowledge of classical Japanese is required for this seminar.	Tuesdays at 10:30 a.m. (first lecture 7 January) <i>Tuesdays at 11:45 a.m. (first seminar 4 February)</i>	32
<b>Contemporary Arab History – Henry LAURENS</b> Lecture series: The Palestine Issue: the Failure of the Peace Process <i>Seminar: Arab Political Culture</i>	Wednesdays at 3 p.m. (first lecture 13 November) <i>Wednesdays at 11:30 a.m. (first seminar 13 November)</i>	33
<b>Writings and Cultures in Modern Europe – Roger CHARTIER</b> Lecture series: Texts Without Borders (16th-18th centuries) <i>Seminar: Cultural History in Question(s)</i>	Thursdays at 10 a.m. (first lecture 24 October) <i>Thursday at 4 p.m. (first seminar 24 October)</i>	34

<b>Literatures of Medieval France – Michel ZINK</b> Lecture series: Who Is the Poet? (cont.) Seminar: Pseudonyms	Wednesdays at 10:30 a.m. (first lecture 4 December) <i>Wednesdays at 11:30 a.m.</i> <i>(first seminar 11 December)</i>	35
<b>Modern and Contemporary French Literature: History, Criticism, Theory – Antoine COMPAGNON</b> Lecture series: The Literary Battlefield Seminar: Linked to the topics covered in the lectures	Tuesdays at 4:30 p.m. (first lecture 14 January) <i>Tuesdays at 5:30 p.m. (first seminar 14 January)</i>	36
<b>Modern Literatures of Neo-Latin Europe – Carlo OSSOLA</b> Lecture series: Spanish Baroque and European Baroque Seminar: Baroque Myths and Representations	Wednesdays at 5 p.m. (first lecture 15 January) <i>Thursdays at 10 a.m. (first seminar 23 January)</i>	37
<b>Metaphysics and Philosophy of Knowledge – Claudine TIERCELIN</b> Lecture series: The Metaphysics of Natural Kinds (cont.) Seminar: Causality: New Perspectives, Symposium	Wednesdays at 2:30 p.m. (first lecture 5 February) <i>Thursday 5 December and Friday 6 December</i> <i>from 9 a.m. to 7 p.m.</i>	38
<b>History of Medieval Philosophy – Alain de LIBÉRA</b> <i>Inaugural Lecture: Thursday 13 February, 6 p.m.</i> Lecture series: <i>Inventio Subiecti</i> . The Invention of the Modern Subject Seminar: Linked to the topics covered in the lectures	Thursdays at 10:30 a.m. (first lecture 6 March) <i>Thursdays at 11:30 a.m. (first seminar 20 March)</i>	39
<b>Anthropology of Nature – Philippe DESCOLA</b> Lecture series: Landscape Forms (cont.), Seminar: Anthropological Approaches to Landscape	Wednesdays at 2 p.m. (first lecture 26 February) <i>Thursdays at 10 a.m. (first seminar 20 February)</i>	40
<b>Early Modern Global History – Sanjay SUBRAHMANYAM</b> To be announced		41
<b>Modern and Contemporary History of Politics – Pierre ROSANVALLON</b> Lecture series: Democracy: an Outline of a General Theory (cont.) Seminar: Referendum and Democracy	Wednesdays at 10 a.m. (first lecture 22 January) <i>Wednesdays at 10 a.m. (first seminar 26 February)</i>	42
<b>The Social State and Globalization: a Legal Analysis of Forms of Solidarity – Alain SUPIOT</b> Lecture series: Representations of Allegiance Seminar: Current Issues in Business Law, Symposium	Thursdays at 2:30 p.m. (first lecture 6 February) <i>Thursday 12 June and Friday 13 June</i> <i>from 9 a.m. to 6 p.m.</i>	43
<b>Sociology of Creative Working Process – Pierre-Michel MENGER</b> <i>Inaugural Lecture: Thursday 9 January, 6 p.m.</i> Lecture series: Work, its Value and its Evaluation Seminar: Evaluation in the Sciences, the Arts and in Organizations	Fridays at 10 a.m. (first lecture 17 January) <i>Fridays at 11 a.m. (first seminar 17 January)</i>	44

## Annual Chairs

REF.

<b>Chair of Artistic Creation – Tony CRAGG</b> , Sculptor, Rector of the Düsseldorf Academy of Art <i>Inaugural Lecture: Sculpture and Language, Thursday 24 October, 6 p.m.</i> Lecture series: Sculpture and Language	Tuesdays at 5 p.m. (first lecture 29 October)	45
<b>Chair of Sustainable Development – Environment, Energy and Society – Gilles BOEUF</b> , President of the Muséum d'Histoire naturelle, Paris <i>Inaugural Lecture: Biodiversity, the Ocean, the Forest and the City, Thursday 19 December, 6 p.m.</i> Lecture series: Biodiversity – its Development and Interfaces with Humans Seminar 1: Linked to the topics covered in the lectures Seminar 2: Can Human Beings Accept Themselves as They Are?, Symposium	Tuesdays at 11 a.m. (first lecture 7 January) <i>Tuesday 11 and 25 February at 10 a.m.</i> <i>Thursday 22 May and Friday 23 May</i> <i>from 9 a.m. to 6 p.m.</i>	46
<b>Chair of Knowledge Against Poverty – François BOURGUIGNON</b> , Professor and Former Director at the Paris School of Economics, Former World Bank Chief Economist <i>Inaugural Lecture: Poverty and Development in a Globalized World, Thursday 3 April, 6 p.m.</i> Lecture series: Poverty, Development and Globalization Seminar: Linked to the topics covered in the lectures, Symposium	Mondays at 4:30 p.m. (first lecture 28 April) <i>Thursday 19 June and Friday 20 June</i> <i>from 9 a.m. to 6 p.m.</i>	47
<b>Chair of Information Technology and Digital Sciences – Nicholas AYACHE</b> , Research Director, INRIA <i>Inaugural Lecture: From Medical Imaging to the Digital Patient, Thursday 10 April, 6 p.m.</i> Lecture series: The Personalized Digital Patient: Imaging, Medicine and Information Technology Seminar 1: Linked to the topics covered in the lectures Seminar 2: Linked to the topics covered in the lectures, Symposium	Tuesdays at 4:30 p.m. (first lecture 29 April) <i>Tuesdays at 5:30 p.m. (first seminar 29 April)</i> <i>Tuesday 24 June from 9 a.m. to 6 p.m.</i>	48
<b>Chair of Technological Innovation Liliane Bettencourt – Philippe WALTER</b> , Research Director, Laboratoire d'archéologie moléculaire et structurale, CNRS <i>Inaugural Lecture: On the Artist's Palette: Chemical Physics in Artistic Creativity, Thursday 20 March, 6 p.m.</i> Lecture series: Analytical Chemistry and History of Art Seminar: Linked to the topics covered in the lectures	Mondays at 10:30 a.m. (first lecture 24 March) <i>Mondays at 11:30 a.m. (first seminar 24 March)</i>	49

# Professors

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Édouard BARD	Climate and Ocean Evolution	10
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François BOURGUIGNON	Chair of Knowledge Against Poverty	47
Jean-Pierre BRUN	Techniques and Economies in the Ancient Mediterranean	27
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Tony CRAGG	Chair of Artistic Creation	45
Jean DALIBARD	Atoms and Radiation	7
Stanislas DEHAENE	Experimental Cognitive Psychology	20
Philippe DESCOLA	Anthropology of Nature	40
Marc FONTECAVE	Chemistry of Biological Processes	14
Antoine GEORGES	Physics of Condensed Matter	8
Frantz GRENET	History and Culture of Pre-Islamic Central Asia	28
Nicholas GRIMAL	Pharaonic Civilization: Archaeology, Philology, History	22
Serge HAROCHE	Quantum Physics	6
Edith HEARD	Epigenetics and Cellular Memory	17
Jean KELLENS	Indo-Iranian Languages and Religions	29
Denis KNOEPFLER	Epigraphy and History of The Ancient Greek Cities	25
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Claudine TIERCELIN	Metaphysics and Philosophy of Knowledge	38
Philippe WALTER	Chair of Technological Innovation Liliane Bettencourt	49
Pierre-Étienne WILL	History of Modern China	31
Jean-Christophe YOCCOZ	Differential Equations and Dynamical Systems	2
Don ZAGIER	Number Theory	4
Michel ZINK	Literatures of Medieval France	35

# Timetable

<b>MONDAY</b>		
10:30 a.m.	Philippe WALTER	49
11:30 a.m.	Philippe WALTER*	49
2 p.m.	Nicholas GRIMAL	22
2:30 p.m.	Barbara ROMANOWICZ	9
3 p.m.	Nicholas GRIMAL*	22
4 p.m.	Edith HEARD	17
4:15 p.m.	Don ZAGIER	4
4:30 p.m.	François BOURGUIGNON	47
4:30 p.m.	Jean-Marie TARASCON	12
5 p.m.	Alain PROCHIANTZ	18
5:30 p.m.	Jean-Marie TARASCON*	12
<b>TUESDAY</b>		
9:30 a.m.	Serge HAROCHE	6
9:30 a.m.	Antoine GEORGES	8
10 a.m.	Jean-Pierre BRUN	27
10 a.m.	Jean-Pierre BRUN*▲	27
10:30 a.m.	Jean-Noël ROBERT	32
10:45 a.m.	Antoine GEORGES*	8
11 a.m.	Gilles BOEUF	46
11 a.m.	Serge HAROCHE*	6
11:45 a.m.	Jean-Noël ROBERT*	32
4:30 p.m.	Antoine COMPAGNON	36
4:30 p.m.	Nicholas AYACHE	48
5 p.m.	Tony CRAGG	45
5:30 p.m.	Nicholas AYACHE*	48
5:30 p.m.	Antoine COMPAGNON*	36
<b>WEDNESDAY</b>		
09:30 a.m.	Jean DALIBARD	7
10 a.m.	Jean-Christophe YOCCOZ	2
10 a.m.	Marc FONTECAVE	14
10 a.m.	Pierre ROSANVALLON	42
10 a.m.	Pierre ROSANVALLON*	42
10:30 a.m.	Michel ZINK	35
11 a.m.	Marc FONTECAVE*	14
11:30 a.m.	Michel ZINK*	35
11:30 a.m.	Jean DALIBARD*	7
11:30 a.m.	Henry LAURENS*	33
2 p.m.	Philippe DESCOLA	40
2 p.m.	Pierre-Étienne WILL	31
2:30 p.m.	Claudine TIERCELIN	38
3 p.m.	Henry LAURENS	33
4 p.m.	Gérard BERRY	5
4 p.m.	Clément SANCHEZ	13
4 p.m.	Philippe SANSONETTI	19
5 p.m.	Gérard BERRY*	5
5 p.m.	Clément SANCHEZ*	13
5 p.m.	Carlo OSSOLA	37
5:30 p.m.	Philippe SANSONETTI*	19
<b>THURSDAY</b>		
10 a.m.	Philippe DESCOLA*	40
10 a.m.	Christine PETIT	16
10 a.m.	Roger CHARTIER	34
10 a.m.	Carlo OSSOLA*	37
10:30 a.m.	Alain de LIBERA	39
11 a.m.	Anne CHENG	30
11:30 a.m.	Alain de LIBERA*	39
11:30 a.m.	Christine PETIT*	16
2 p.m.	Thomas RÖMER	23
2:30 p.m.	Alain CONNES	1
2:30 p.m.	Alain SUPIOT	43
2:30 p.m.	John SCHEID	26
2:30 p.m.	Frantz GRENET	28
3 p.m.	Anne CHENG*	30
3:30 p.m.	Frantz GRENET*	28
4 p.m.	Roger CHARTIER*	34
4 p.m.	John SCHEID*	26
4:30 p.m.	Anne CHENG*	30
<b>FRIDAY</b>		
9 a.m.	Pierre-Louis LIONS	3
9:30 a.m.	Jean KELLENS	29
9:45 a.m.	Denis KNOEPFLER	25
10 a.m.	Pierre-Michel MENGER	44
11 a.m.	Denis KNOEPFLER*	25
11 a.m.	Pierre-Michel MENGER*	44
11:15 a.m.	Pierre-Louis LIONS*	3
3 p.m.	Édouard BARD	10

\*Seminars

▲ Every two weeks



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Further information may be found at [www.college-de-france.fr](http://www.college-de-france.fr) and through social media

