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## LPTHE - Laboratoire de physique théorique et hautes énergies

Rapport Hcéres

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Research evaluation

## REPORT ON THE RESEARCH UNIT:

Laboratoire de Physique Théorique et Hautes  
Énergies  
LPTHE

## UNDER THE SUPERVISION OF THE FOLLOWING INSTITUTIONS AND RESEARCH BODIES:

Sorbonne Université  
Centre National de la Recherche Scientifique -  
CNRS

**ÉVALUATION CAMPAIGN 2017-2018**  
GROUP D



In the name of Hcéres<sup>1</sup> :

Michel Cosnard, President

In the name of the expert committee<sup>2</sup> :

Stephen Shenker, Chairman of the  
committee

Under the decree No.2014-1365 dated 14 November 2014,

<sup>1</sup> The president of HCERES "countersigns the evaluation reports set up by the expert committees and signed by their chairman." (Article 8, paragraph 5);

<sup>2</sup> The evaluation reports "are signed by the chairman of the expert committee". (Article 11, paragraph 2).

This report is the sole result of the unit's evaluation by the expert committee, the composition of which is specified below. The assessments contained herein are the expression of an independent and collegial reviewing by the committee.

## UNIT PRESENTATION

<b>Unit name:</b>	Laboratoire de Physique Théorique et Hautes Énergies
<b>Unit acronym:</b>	LPTHE
<b>Requested label:</b>	UMR
<b>Application type:</b>	Renewal
<b>Current number:</b>	UMR 7589
<b>Head of the unit (2017-2018):</b>	Mr Benoît Douçot
<b>Project leader (2019-2023):</b>	Ms Michela PETRINI
<b>Number of teams or themes:</b>	4

## COMMITTEE MEMBERS

<b>Chair:</b>	Mr Stephen SHENKER, Stanford University, USA
<b>Experts:</b>	Mr Aurélien BARRAU, CNRS, In2p3 (representative of CoNRS) Mr Sacha DAVIDSON, CNRS, In2p3 Mr Malte HENKEL, université de Lorraine Mr Jean-Michel MAILLET, ENS Lyon Mr Pierre PUJOL, université Paul Sabatier Toulouse III (representative of CNU)
<b>HCERES scientific officer:</b>	Mr Yannis KARYOTAKIS
<b>Representatives of supervising institutions and bodies:</b>	Mr Bertrand MEYER, Sorbonne Université Mr Bart VAN TIGGELEN, CNRS

## INTRODUCTION

### HISTORY AND GEOGRAPHICAL LOCATION OF THE UNIT

The LPTHE was created in 1966 by Maurice LÉVY. We have celebrated recently its 50<sup>th</sup> birthday. The LPTHE is entirely located on the renovated Jussieu campus in the historical Latin Quarter, at walking distance from prestigious institutions such as École Normale Supérieure, Collège de France, Institut Poincaré.

### MANAGEMENT TEAM

Mr Benoit Douçot

### HCERES NOMENCLATURE

ST Sciences and Technologies

ST2 Physics

ST1 Mathematics

### SCIENTIFIC DOMAIN

Originally dedicated to high-energy physics, LPTHE has gradually broadened its spectrum, in tune with the worldwide evolution of theoretical physics. High-energy physics (including particle physics and string theory) gathers roughly half of the activity of the LPTHE, the other half being distributed among various subjects, including integrable models, quantum field theory, mathematical physics, statistical and condensed matter physics.

## UNIT WORKFORCE

Unit workforce	Number 30/06/2017	Number 01/01/2019
<b>Permanent staff</b>		
Full professors and similar positions	6	5
Assistant professors and similar positions	3	3
Full time research directors (Directeurs de recherche) and similar positions	9	9
Full time research associates (Chargés de recherche) and similar positions	8	6
Other scientists ("Conservateurs, cadres scientifiques des EPIC, fondations, industries, etc.")	0	0
High school teachers	0	0
Supporting personnel (ITAs, BIATSSs and others, notably of EPICs)	2	2
<b>TOTAL permanent staff</b>	<b>28</b>	<b>25</b>
<b>Non-permanent staff</b>		
Non-permanent professors and associate professors, including emeritus	2	
Non-permanent full time scientists, including emeritus, post-docs	14	
Non-permanent supporting personnel	0	
PhD Students	13	
<b>TOTAL non-permanent staff</b>	<b>29</b>	
<b>TOTAL unit</b>	<b>57</b>	

## GLOBAL ASSESSMENT OF THE UNIT

Based on the quality of its scientific output, international standing, and quality of intellectual life, the committee considers this to be an outstanding unit. The current director has played an essential role in developing and maintaining this exceptionally high quality.

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