Conceptual Issues in Fundamental Physics

June 9th – LPSC Grenoble

10:30 Francesca Vidotto (IMAPP Nijmegen)
No Time No Problem

14:00 Marco Guagnelli (INFN Pavia)
Do Virtual Particles Really Exist?

June 13th – LAPTh Annecy

10:30 Philippe Brax (IPhT CEA Saclay)
What is the Problem With the Cosmological Constant?

14:00 Alexia Auffèves (Institut NÉEL Grenoble)
A Physically Realist Ontology for Quantum Mechanics

All curious physicists (students/researchers, experimentalists/theorists) are welcome! Presentations will be followed by question/discussion sessions.

Participation is free, registration is appreciated for planning the lunch:
https://lpsc-indico.in2p3.fr/Indico/event/1603/

Info & Organization:
Aurélien Barrau, Luca Fabbri, Marie-Hélène Genest, Cécile Renault, Pierre Salati

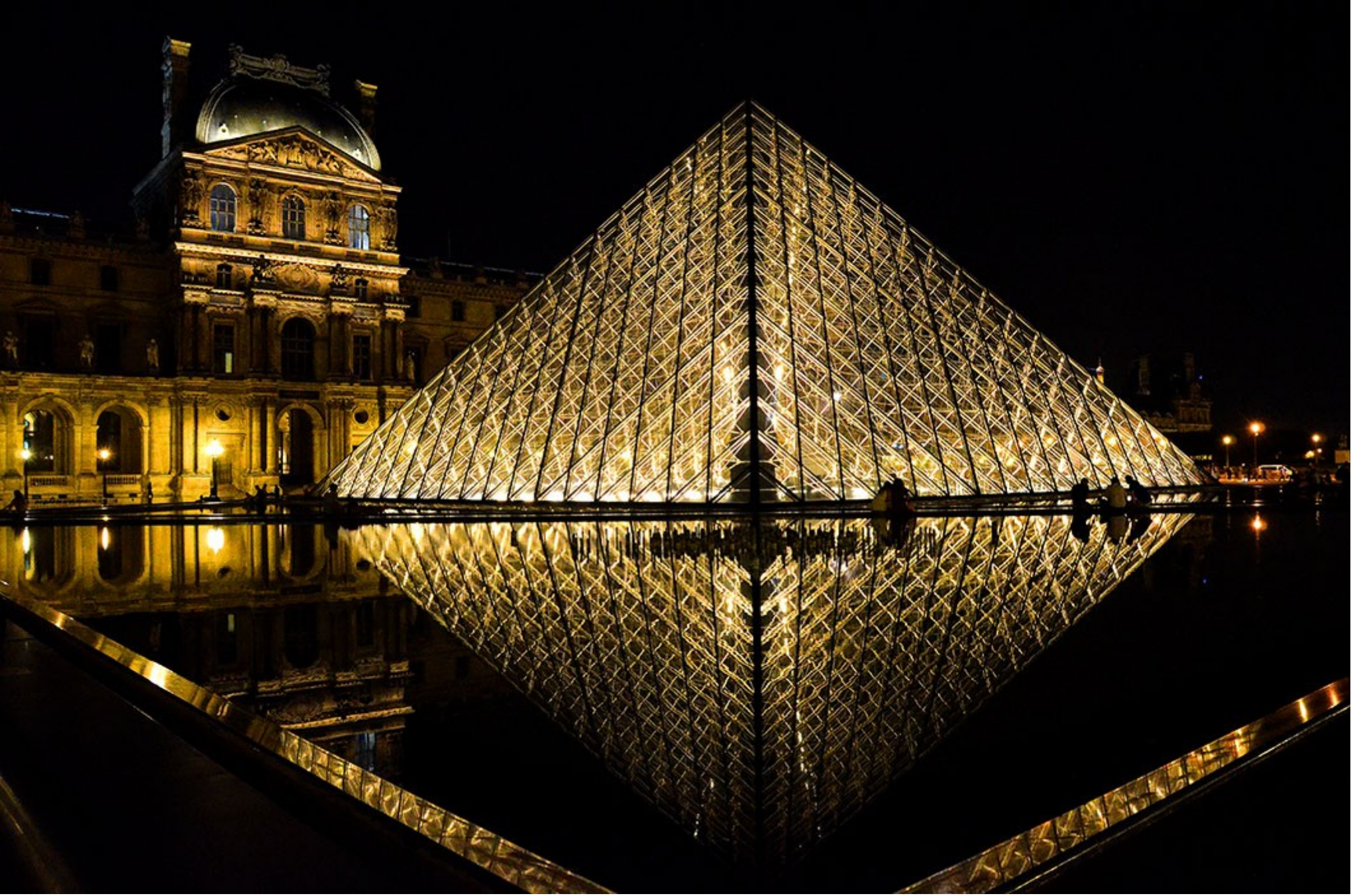
Enigmass – The enigma of mass
PTGA – Centre de Physique Théorique Grenoble-Alpes
LPSC Grenoble – Laboratoire de Physique Subatomique et de Cosmologie
LAPTh

“Distoriyan”

“Spinore”

“Just the beginning”

“Diana”



Works will be at Louvre, Paris, France, 20-24/10/2017

Shut up and calculate!

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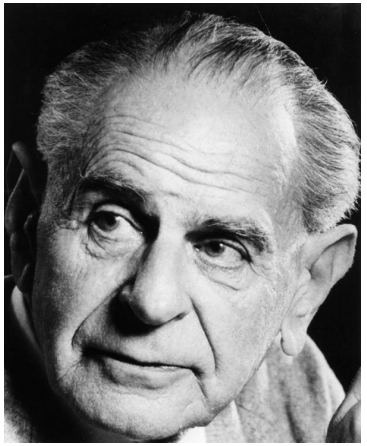
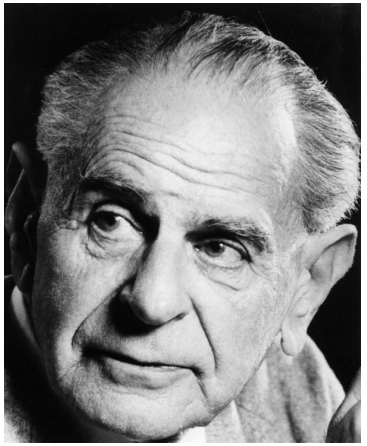
There are more things on Earth, Horatio, than those you can dream in your science and philosophy.

Shut up and calculate!

… strings, loops... conformal symmetry, supersymmetry... non-metric gravity, torsion... SU(5), SO(10), SO(32), E8... higher-order gravity, f(R)-gravity, f(T)-gravity, f(X)-gravity, massive gravity... Majorana spinors, ELKO spinors... Galileons, aether... there are maaaaaaaany more things in our theories, Richard, than those that are really found in the Universe.



Popper: Theories should be conceived with no limits, and experiments should then be used to rule them out.



Popper: Theories should be conceived with no limits, and experiments should then be used to rule them out.

Jan L. A. van de Snepscheut: In theory there is no difference between theory and practice, but in practice there is.

CONCEPTUAL ISSUES IN FUNDAMENTAL PHYSICS – the manifesto:

- "Shut up and calculate!" is being followed too literally and so we would like to suggest a more balanced "How about we think before we calculate?"

CONCEPTUAL ISSUES IN FUNDAMENTAL PHYSICS – the manifesto:

- "Shut up and calculate!" is being followed too literally and so we would like to suggest a more balanced "How about we think before we calculate?"
- talks are a presentation (technical as much as needed but after that essentially conceptual) on a specific subject then followed by extensive discussions on that subject (which may continue even after the allotted time).