HORAIRES SEMAINE 1

<h2>École à Luminy</h2>

20h —	Tyn —	2	18h —	17. E	16. 	7 F	14h	13h —	12h —	11h —	10h —	9h —	8h —
Dîner			Harari	Peyre	Pause café			Déjeuner	Harari	Pause café	Peyre		Lundi 15/4
Dîner			Peyre	Harari	Pause café			Déjeuner	Peyre	Pause café	Harari		Mardi 16/4
Dîner		·						Déjeuner	Demarche	Pause café	Schindler		Mercredi 17/4
Dîner			Demarche	Schindler	Pause café			Déjeuner	Schindler	Pause café	Demarche		Jeudi 18/4
								Déjeuner	Schindler	Pause café	Demarche		Vendredi 19/4
	Week-end												

Cyril Demarche: Cohomological obstructions to local-global principles

Hasse proved that for quadrics the existence of rational points reduces to the existence of solutions over local fields. In many cases, cohomological constructions provide obstructions to such a local to global principle. The objective of these lectures is to give an introduction to these cohomological tools.

Date: Lundi 15 avril–Dimanche 21 avril.

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David Harari: Galois cohomology, arithmetic duality and obstructions to local-to-global principles for rational points

A general survey about Galois and étale cohomology, arithmetic duality theorems, and Poitou-Tate exact sequences, with an emphasis on applications to local-to-global principles.

Emmanuel PEYRE: Points of bounded height

These talks will start with an introduction to the notion of heights before giving a survey on the program of Manin about the asymptotic behaviour of rational points of bounded height on varieties.

Damaris Schindler: Interactions of analytic number theory and geometry

A general introduction to the state of the art in counting of rational and integral points on varieties, using various analytic methods with the Brauer–Manin obstruction.