

MATH-747

**Quantum Cohomology**

Wyss Dimitri Stelio

Cursus	Sem.	Type
Mathematics		Opt.

Language of teaching	English
Credits	3
Session	
Exam	Oral presentation
Workload	90h
<b>Hours</b>	<b>50</b>
Courses	20
Exercises	20
TP	10
<b>Number of positions</b>	

**Frequency**

Only this year

**Remark**

Dates: from 1.-5.6.2026

**Summary**

The goal of the course is to learn the basics of Quantum cohomology following "An Invitation to Quantum Cohomology" by Kock and Vainsencher. Every participant prepares a 90 minutes lecture as well as an exercise session.

**Content**

The course follows the book "An Invitation to Quantum Cohomology" by Kock and Vainsencher. The following notions will be introduced:

Stable curves and maps  
Gromov-Witten Invariants  
Quantum cohomology

Every participant prepares a 90 minutes lecture as well as an exercise session which will cover a morning of an afternoon of the first week of June.

**Keywords**

Quantum cohomology, Gromov-Witten Invariants, stable maps

**Learning Prerequisites****Required courses**

Good knowledge in scheme theory

**Learning Outcomes**

By the end of the course, the student must be able to:

- Define the definition of quantum cohomology

**Resources**

### **Bibliography**

"An Invitation to Quantum Cohomology" by Kock and Vainsenche

### **Ressources en bibliothèque**

- [Find the references at the Library](#)

### **Moodle Link**

- <https://go.epfl.ch/MATH-747>