

Mini Course – The Restriction Conjecture

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Logistics

Dates	Wednesdays, 15 Oct – 10 Dec 2025 (5 weeks)
Time	May vary by week; see the schedule below.
Location	May vary by week; see the schedule below.
Audience	Master's level (everyone welcome).
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Overview

Stein's restriction problem lies at the heart of modern harmonic analysis. This mini course offers an accessible introduction to the Fourier restriction problem, develops core tools, and highlights connections with geometric measure theory. We aim to provide a clear conceptual picture and a practical toolkit while clarifying its relationship with the Kakeya conjecture. The course is self-contained and intended for a broad audience—everyone is welcome.

Schedule (provisional)

Week	Topic	Date	Time	Location
1	Introduction	Wed, 15 Oct	14:00–16:00	Room 109
2	Restriction Conjecture	Wed, 22 Oct	14:00–16:00	Room 109
3	Stein–Tomas Theorem	Wed, 29 Oct	14:00–16:00	Room 109
4	Kakeya Conjecture	Wed, 3 Dec	14:00–16:00	Room 104
5	Restriction \Rightarrow Kakeya	Wed, 10 Dec	14:00–16:00	Room 104

Dates and times are provisional and subject to change. For questions or requests, please contact shobu.shiraki@math.hr.