

MA4198 PROJECT PROPOSAL (PROJECT CUM SEMINAR GROUP)

SUPERVISOR'S INFO

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PROJECT ID: PS2320-06

TITLE

Hyperbolic Geometry

BRIEF DESCRIPTION OF PROJECT

The goal would be to go through the book "Hyperbolic Geometry" by JAMES W. CANNON, WILLIAM J. FLOYD, RICHARD KENYON, and WALTER R. PARRY. This is a basic book intended to introduce the students to the beauty and the usefulness of the hyperbolic geometry, its history, concepts, different models and some recent developments. Interested students can have the opportunity branch out into specific subtopics or related material.

EXPECTATION/S

Read and understand together as a group the book "Hyperbolic Geometry" by JAMES W. CANNON, WILLIAM J. FLOYD, RICHARD KENYON, and WALTER R. PARRY, and to be able to explain the main ideas to each other and to the supervisor.

PREREQUISITE/S (at level 3000 or below, with at most one course at level 3000)

MA3209 Metric and Topological Spaces , together with basic linear algebra and calculus

READING REFERENCE/S

"Hyperbolic Geometry"
by JAMES W. CANNON, WILLIAM J. FLOYD, RICHARD KENYON, and WALTER R. PARRY.
MSRI Publications Volume 31, 1997.
Available at <https://www.math.ucdavis.edu/~kapovich/RFG/cannon.pdf>