

APPROVED: HRI MATHEMATICS POSTDOCTORAL PROGRAMME

CONTENTS

Preamble	1
1. Selection Procedure	1
1.1. Application Deadlines	1
1.2. What the applicant must do while applying	1
2. Joining	2
3. Duties	2
4. Leave Rules([OM on Leave])	3
References	3

PREAMBLE

This document summarizes the Mathematics Postdoctoral Programme at HRI.

1. SELECTION PROCEDURE

1.1. Application Deadlines. The HRI Math postdoc selection procedure will take place twice a year with deadlines of June 15 and November 15 of every year. The deadline for receiving all application material including the letters of recommendation would be the aforementioned dates.

Round	Application Deadline	Selection Deadline
I	June 15	July 30
II	November 15	December 30

1.2. What the applicant must do while applying.

(1) Applicants are asked to choose one of the following four disciplines while applying:

(1) **Algebra and Algebraic Geometry**

Group Theory, Representation Theory, Algebraic Structures, Category Theory, Algebraic Geometry etc.

(2) **Analysis**

Differential Equations, Harmonic Analysis, Probability, Functional Analysis, Geometric Analysis, Complex Analysis etc.

(3) **Geometry and Topology**

Differential Geometry, Riemannian Geometry, Differential Topology, Algebraic Topology etc.

(4) **Number Theory**

Algebraic Number Theory, Analytic Number Theory, Theory of L-functions, Arithmetic Dynamics etc.

(2) An applicant may choose more than one discipline, but no more than two, if they are unsure which discipline would have been appropriate.

- (3) After selecting the relevant discipline, applicants must send the **application*** email to the associated email addresses and request that the respective recommendation letter writers send their letters to that specific email address.
- algebra-pdf@hri.res.in
 - analysis-pdf@hri.res.in
 - geometry-topology-pdf@hri.res.in
 - numbertheory-pdf@hri.res.in
- * The **application** should be one single PDF file consisting of Cover Letter + Curriculum Vitae + List of Publications + List of Referees + Research Proposal.
- (4) Applicants need to make sure that the two letters of recommendation have been sent on time as mentioned in 1.1.
- (5) The candidates will be required to submit a half-hour online presentation (25 minutes of talk, plus five minutes of Q&A), following the first round of selection.
- These talks will take place between July 1 to July 10 and December 1 to December 10 respectively.
 - The candidates will be notified via email at least one week in advance.
 - The talks are open to HRI faculty, students, and postdoctoral fellows.
- (6) Following their presentation, the final list of selected candidates will be made public on the HRI website on July 31st (Round 1) and December 31st (Round 2).
- (7) During this process, if the applicants have any queries, they can communicate only via this email id compdf@hri.res.in. The postdoc committee would be in charge of this.

2. JOINING

• Joining Dates

Selected candidates will have to join the postdoc position by September 15 and February 15 for Round 1 and Round 2 respectively. In exceptional cases, the joining timeline may be extended.

• Mentor Assignment

On joining the institute, a postdoc will be assigned a faculty member as a mentor. This assignment will be based on research areas and interests. In case, a mentor is not assigned, the convener of the 'PDF Committee' will act as the mentor.

• Joining Talk

A postdoc joining talk will take place within one month of joining the institute. It would be the responsibility of the mentor to schedule the joining talk.

3. DUTIES

- (1) All postdoctoral fellows are expected to actively participate in research seminars. This may be done in consultation with their mentors or independently.
- It is intended that they will also conduct or organize a research seminar or colloquium talks related to their field of study.
- (2) Teaching responsibilities may be assigned to postdoctoral fellows. The teaching responsibilities could be as a TA for SPIM or graduate/master's courses.
- Senior postdoctoral fellows may be assigned the duty of independent course instructors for SPIM and the Master's Programme.

- (3) Postdoctoral fellows are expected to acknowledge the institute in research publications/preprints communicated during their tenure as postdocs at HRI.
- (4) Annual reports or other timely research reports requested by the institute should be submitted as per the deadlines.

4. LEAVE RULES([OM on Leave])

- (1) A postdoctoral fellow needs to apply for leave before any absence from the institute. The mentor shall approve the leave by attesting their signature on the leave form. In case the mentor is on leave, this signature may be an e-signature/email approval.
- (2) Absence from the institute without applying for leave will be considered a serious dereliction of duty and will be reported to the Director of the institute for appropriate action. This absence can be condoned only when appropriate explanation and justification are provided.

REFERENCES

- [1] <https://www.hri.res.in/~rtihri/AnnexV.pdf>
[OM on Leave] <https://www.hri.res.in/~rtihri/Leave-Rule-with-Clarification-JRF-SRF-PDF-2018.pdf>
1, 3