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# INDIAN WOMEN AND MATHEMATICS

Visitor Programme Lecture Series

<https://iwm.org.in/>

## About the Speaker



You are cordially invited to a lecture  
by

**Prof. Ariane Mézard**

Sorbonne University, Paris, France

***An Introduction to the Oort conjecture***

Monday, 6<sup>th</sup> March 2023 at 10:00 a.m. (IST)

**Central University of Tamil Nadu**

Prof. Ariane Mézard is a professor at Institut de Mathématiques de Jussieu, Sorbonne University and École Normale Supérieure PSL.

Her research interests are Arithmetic Geometry, Number Theory, Iwasawa theory,  $p$ -adic Hodge theory, Galois representations,  $p$ -adic Langlands program, Rigid geometry, and Deformations of coverings of algebraic curves.

## ABSTRACT:

Oort's conjecture predicts that any  $p$ -cyclic cover of a smooth projective curve defined over an algebraic closed field of characteristic  $p > 0$  admits a lifting to characteristic zero. This conjecture has been proved by F. Pop (2016). We present some open questions related to this conjecture.

The talk will be followed by interaction with the speaker

<http://math-analytics.org/iwmvp23/>

