

# INDIAN WOMEN AND MATHEMATICS

## Visitor Programme Lecture Series

You are cordially invited to a lecture

by

**Prof. Neena Gupta**  
Indian Statistical Institute, Kolkata

on

**Double Danielewski Surfaces: counterexamples to  
the  
generalised Cancellation problem**

**Friday, 28<sup>th</sup> August, 2020 at 4.00 p.m.**

Please join via

**Zoom** <https://us02web.zoom.us/j/87151066492>

**YouTube** <https://youtu.be/01BfqwaqCSU>

### ABSTRACT

In this talk, we will present a new family of examples discovered by us which turned out to be counterexamples to the generalised cancellation problem. This family of examples is analogous to the well-known Danielewski surfaces and we name them double Danielewski surfaces. We will also discuss its isomorphism classes and its automorphism groups.

### About the Speaker



Prof. Neena Gupta has a long list of awards to her name, the prestigious Shanti Swarup Bhatnagar Award (2019) being the most recent one. In the past also she has won several awards - the Swarna Jayanti Fellowship, Birla Prize and the INSA Young Scientist Medal to name but a few.

She works in the area of affine algebraic geometry. One of her famous works has been the solution to the long standing Zariski cancellation problem in positive characteristic. Though this problem is very easy to state, the answer to the question had been elusive for affine rings of dimension greater than two. She proved that the problem has negative solutions in all dimensions higher than two.

She did her undergraduate work at Bethune College Kolkata and post-graduation from ISI Kolkata and went on to obtain her doctoral degree also from ISI Kolkata. She has been a Visiting Scientist at TIFR (Mumbai) and ISI (Kolkata).

Currently, she is an Associate Professor at ISI Kolkata.