

Departmental Seminar

Seminar Title	: Positive solutions to nonhomogeneous quasilinear problems with singular and supercritical nonlinearities.
Speaker	: Ambesh Kumar Pandey
Supervisor	: Ambesh Kumar Pandey
Venue	: Seminar Hall, Departement of Mathematics
Date and Time	: 04 Jul 2024 (11.00 AM)
Abstract	: In recent years, there has been a growing interest in nonlinear singular elliptic PDEs. We study the existence of positive solutions for quasilinear and singular elliptic problems involving supercritical nonlinearity. Our objective is to prove the existence of positive solutions, focusing on the impact of singular and supercritical nonlinearities on the right-hand side alongside the nonhomogeneous operator. Specifically, for supercritical cases, we prove the existence of solutions in a weak sense. To demonstrate the existence of a weak solution, we utilize the method of sub and supersolution.