



**Weekly Seminar
May 2024 Program**

**On Mondays, 8.00 - 8.30 AM
(In person Talks)
Room 2-079B**

DATE	SPEAKER	TALK'S TITLE
06.05.2024	Samy Baraket	Construction of singular limits for some elliptic problems on some bounded domain of dimension 2
ABSTRACT		
<p>Let Ω be a regular bounded domain in R^2. We consider the following problem</p> $\begin{cases} -\Delta u = \rho^2 e^u, & \text{in } \Omega \\ u = 0, & \text{on } \partial\Omega \end{cases}$ <p>where ρ is some positive parameter. This problem arises from geometry and physics. Suzuki proves that three cases occur about the behavior u, as the parameter ρ tends to 0. In this work, we will prove that one of the three cases holds.</p>		