Introduction to Stokes structures for irregular singularities

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Timetable:
23/4 at 10:30 in room 2BC30 (Sabbah)
23/4 at 14:30 in room 1BC45 (Hien)
24/4 at 10:30 in room 2BC30 (Sabbah)
24/4 at 14:30 in the meeting room on the 7th floor (Hien)
26/4 at 10:30 in room 2BC30 (Sabbah)
26/4 at 14:30 in room 2BC30 (Hien)

Course requirements:

Examination and grading:

SSD: MAT/03-MAT/05

Aim:

Course contents: This series of lectures intends to explain various approaches to the Stokes filtration on the solution space of a linear complex differential equation having an irregular singularity. After reviewing the case of a non-ramified irregular singularity of pure level, we will focus

- on the computation of the Fourier transform in the case of irregular singularities of Gaussian type,
- and on computations of Stokes structures in the presence of with supplementary structures.