

Session 13, Differential structures and homological methods in commutative algebra and algebraic geometry

Wednesday 18, Room 309

- 19:00–20:00 **The p -adic exponents of a differential equation**
Zoghman Mebkhout

Thursday 19, Room 310

- 11:30–12:30 **On the residue theorem for formal schemes**
Joseph Lipman
- 12:30–13:00 **Bousfield localizations in algebraic geometry**
Leovigildo Alonso Tarrío
- 13:00–13:30 **Algorithmic proofs of two theorems of Stafford**
Anton Leykin
- 15:30–16:30 **Nonabelian Hodge theory in characteristic p**
Arthur Ogus
- 16:30–17:00 **The Hodge filtration for the de Rham complex of higher level**
Adolfo Quirós Gracián
- 17:30–18:30 **Cohomological descent and weight filtration**
Francisco Guillén Santos
- 18:30–19:00 **Explicit models for perverse sheaves**
Félix Gudiel Rodríguez
- 19:00–20:00 **A p -local approach to cohomology**
Eric Friedlander

Saturday 21, Room 310

- 08:30–09:00 **Differential operators on toric schemes**
William Traves
- 09:00–09:30 **Meromorphic functions with respect to a locally quasi-homogeneous free divisor**
Francisco Javier Calderón Moreno
- 09:30–10:00 **On the formal stationary phase**
Ricardo García López
- 10:00–11:00 **Riemann Roch and the exponential map**
Henri Gillet