

Workshop on Commutative Algebra, Syzygies and Singularities, December 4-6, 2017, Nice, France.

The workshop will take place at the Laboratoire Jean-Alexandre Dieudonné, Université Côte d'Azur.
Contacts: L. Busé and A. Dimca.

Program of the workshop

Monday 4th:

- **9:30-10:15:** Alexandru Dimca: Open questions on free curves and free surfaces
- Coffee break
- **10:45-11:30:** Jean Vallès: Nearly free curves and arrangements: a vector bundle point of view
- **11:45-12:30:** Alessandro Oneto: A new question on planar polynomial interpolation and line arrangements.
- Lunch break and research in groups in the afternoon

Tuesday 5th:

- **9:00-9:45:** Dorin Popescu: Artin strong approximation for the systems of partial differential equations over the complex number field
- **9:45-10:30:** Claudia Andrei: The coordinate ring of a convex polyomino
- Coffee break
- **11:00-11:45:** Carlos Simpson: Resolution of singularities of a 4 dimensional compactified character variety
- **11:45-12:30:** André Galligo: Deformations of germs of curves with and without embedded components
- Lunch break and research in groups in the afternoon

Wednesday 6th:

- **9:30-10:15:** Marius Vladioiu: Hypergraph encodings of arbitrary toric ideals
- Coffee break
- **10:45-11:30:** Marc Chardin: Syzygies of rings of invariants
- **11:45-12:30:** Laurent Busé: Geometry of rational maps via syzygies.
- Lunch break and research in groups in the afternoon

The workshop activities will take place in room 1, except on Tuesday afternoon in room 2. The abstracts for the talks and the list of participants are available at
<http://www-sop.inria.fr/members/Laurent.Buse/Syzygies17.html>.