ALGANT

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An introduction to the program

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The ALGANT consortium

Established in 2004
What is ALGANT

- 2-year Master programme in pure mathematics
  - Consortium of 7 European universities and 3 non-European institutions.
  - You need to attend at least two universities.
- Focus on Algebra, Geometry and Number Theory
- Launched in 2005 as an Erasmus Mundus Master Programme
European Institutions

- Leiden (The Netherlands)
- Essen-Duisburg (Germany)
- Regensburg (Germany)
- Paris Sud (France)
- Bordeaux (France)
- Milan (Italy)
- Padua (Italy)
Non European Institutions

- Montreal (Canada) Concordia University, together with Centre de Recherches Mathématiques and Institut des Sciences Mathématiques
- Stellenbosh (South Africa) together with African Institute for Mathematical Sciences (Cape Town)
- Chennai (India)
How does it work

- Need to attend at **at least** two institutions in two different countries
  - All combinations are possible (given the above);
  - Scholarship might impose a special mobility scheme;
  - It is possible to visit **three** institutions!
  - Mobility scheme can be flexible, and adjusted on the way, e.g., according to the area you want to specialise in.
AL(gebra)G(eometry)A(nd)N(umber)T(heory)

- Algebra
- Group theory (Padua)
- Category theory (Milan)
- $p$-adic Hodge theory (Paris)
- Algebraic geometry
- Modular varieties (Leiden)
- Elliptic curves
- Algebraic and geometric topology
- Algebraic and analytic number theory
- Computational number theory (Bordeaux, Leiden)
- Coding theory and cryptology (CWI)
Advantages

- You obtain two diploma’s from two different universities.
- Tailormade, personalized study program.
- Creating a network for life (AAN, reunions, research visits,...).
ALGANT in numbers

- Over 1800 applications sent from 55 different countries.
- Each year, 20 scholarships are awarded.
- As of September 2016, 207 students graduated from the ALGANT Master Course:

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<td>20</td>
<td>24</td>
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<td>18</td>
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- Students have come from...
  Italy, The Netherlands, Ireland, Germany, El Salvador, Vietnam, Nigeria, China, Poland, Botswana, Singapore, Venezuela, Chile, United States, South Africa, Russia, Greece, Japan,...
Life after ALGANT

Possibilities with a master degree in pure mathematics

Among the 207 students that graduated until 2016...

▶ ... 163 graduates have started doctoral studies;
  ▶ ... 73 out of those have already got the Ph.D. degree;
  ▶ ... 15 became university teachers, 11 of them tenured;
▶ ... many work in different fields:
  ▶ Teaching in high school
  ▶ European Food Safety Authority
  ▶ Musician
  ▶ Data analysis
  ▶ Consultancy
  ▶ Tourist guide / climbing teacher / ...
Practicalities

Applications are usually between November - January.

Go to www.algant.eu for more information or ask us!

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Why do ALGANT?

 Fundamental research in pure and applied sciences is a driving force for innovation and it encourages curiosity. [...] No country can excel in fundamental research on its own - it requires collaboration between universities and research centers in the north and in the south, and in almost all cases fundamental research is undertaken by teams of international scientists and engineers.