ALGANT

Michele Serra and Rosa Winter

An introduction to the program

June 26th, 2018

The ALGANT consortium



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
- Stelenbosh (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 scholarschips are awarded.
- As of September 2016, 207 students graduated from the ALGANT Master Course:

year	2006	2007	2008	2009	2010	2011
graduates	2	19	22	20	25	20
year	2012	2013	2014	2015	2016	
graduates	20	24	17	18	20	

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 unitil 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!



Please consult the Applying page for instructions.

Rosa: r.l.winter@math.leidenuniv.nl Michele: michele.serra@uni-konstanz.de

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.

Innovation and society (a report by Goolam Mohamedbhai), G8-UNESCO World Forum on Education, Research and Innovation: New Partnership for Sustainable Development (Trieste, Italy, 10-12 May 2007).