

**Minutes from ERCOM MEETING, 15-16 APRIL 2016**  
**Euler International Mathematical Institute, ST. PETERSBURG**

**Friday, April 15**

*11:00 - 12:00 Registration*

*12:00-13:30 Lunch at EIMI*

**13:30-15:00 Session I**

***Item 1: Adoption of Agenda.***

***Item 2: Adoption of Minutes of the ERCOM Meeting in Zurich 2015.***

***Item 3: News from the ERCOM institutes.***

*15:00-15:30 Coffee/Tea Break*

**15:30-16:45 Session II**

***Item 4: Report on EMS Business (Pavel Exner).***

***Item 5: What can be the role of ERCOM centers in promoting practices that ensure equal opportunities for women?*** (Marie-Francoise Roy, chair of the IMU Committee for Women in Mathematics).

*17:15-18:45 Mathematical Talk:* Yu.V.Matiyasevich

*17:15-18:45 Administrators meeting:* chair Annika Augustsson.

*20:00 Dinner*

**Saturday, April 16**

**09:00-11:00 Session III**

***Item 6: Report from Administrators Meeting*** (Annika Augustsson).

***Item 7: The Voice of Scientists in Europe - Initiative for Science in Europe & Euroscience*** (Martin Andler, EuroScience).

***Item 8: EPDI scheme*** (Emmanuel Ullmo, Ari Laptev)

*11:00-11:30 Coffee/Tea Break*

**11:30-12:15 Session IV**

***Item 9: Reports from ICMAT and BCAM.***

***Item 10: Adoption of Resolutions and Actions***

***Item 11: Time and Venue of Next ERCOM Meetings***

***Item 12: Any Other Business***

**12:15 End of the ERCOM meeting**

**Participants**

**Abdus Salam International Centre for Theoretical Physics (ICTP, Trieste)**

Consultant: Francesco Pappalardi

**Alfréd Rényi Institute of Mathematics (Rényi Institute, Budapest)**

Director: Péter Pálffy

**Basque Center for Applied Mathematics (BCAM, Bilbao)**

Scientific Director: Luis Vega Gonzalez

**Centre International de Rencontres Mathématiques (CIRM, Marseille)**

Director: Patrick Foulon, International Officer: Céline Montibeller

**Centre de Recerca Matemàtica (CRM, Barcelona)**

Professor: Lluís Alsedà Soler

**Centro Internacional de Matemática (CIM, Coimbra)**

Director: José Francisco Rodrigues, Professor: Isabel Maria Narra de Figueiredo

**Scuola Normale Superiore, Centro di Ricerca Matematica Ennio De Giorgi (Pisa)**

Director: Stefano Marmi

Administrator: Caterina D'Elia

**EMS**

President: Pavel Exner

**Euler International Mathematical Institute (EIMI, St. Petersburg)**

Ludwig Faddeev: Director, Deputy Director: Vladimir Kapustin, Director: Sergey Kislyakov,  
Head of lab: Yury Matiyasevich

**European Institute for Statistics, Probability, Stochastic Operations Research and their Applications (Eurandom, Eindhoven)**

Scientific Director: Remco van der Hofstad, Workshop organizer: Patricia van Hulten

**Euroscience**

Professor: Martin Andler

**Forschungsinstitut für Mathematik (FIM, Zürich)**

Coordinator: Andrea Waldburger

**Institut des Hautes Études Scientifiques (IHÉS, Bures-sur-Yvette)**

Director: Emmanuel Ullmo, Administrator: Ingrid Peeters

**Institut Mittag-Leffler (Djursholm)**

Director: Ari Laptev, Economist/Administrative Coordinator: Annika Augustsson, Administrator:  
Sri Sahlin

**Institute of Mathematics ASCR (Praha)**

Director: Jiří Rákosník

**Institute de Recherche Math. De Rennes**

Prof. Emeritus: Marie Françoise Roy

**Instituto de Ciencias Matemáticas (ICMAT, Madrid)**

Researcher: Kurusch Ebrahimi-Fard

**International Centre for Mathematical Sciences (ICMS, Edinburgh)**

Scientific Director: David Abrahams, Executive secretary: Jane Walker

**Isaac Newton Institute for Mathematical Sciences (INI, Cambridge)**

Director: David Abrahams, Administrator: Samanta Skehel

**Istituto Nazionale di Alta Matematica "Francesco Severi" (INdAM, Roma)**

President: Giorgio Patrizio, Managing Director: Custode Lofiego

**Johann Radon Institute for Computational and Applied Mathematics (RICAM, Linz)**

Director: Ulrich Langer, Scientific assistant: Peter Albin Kritzer,

**Mathematisches Forschungsinstitut Oberwolfach (MFO, Oberwolfach)**

Scientific Administrator: Stephan Klaus

**Max-Planck-Institut für Mathematik (MPI-M, Bonn)**

Scientific Coordinator: Pieter Moree, Administrator: Talip Toksöz

**Max-Planck-Institut für Mathematik in den Naturwissenschaften (MPI-MIS, Leipzig)**

Scientific Coordinator: Joerg Lehnert, Administrator: Katja Heid

**Institute of Mathematics, Polish Academy of Sciences (Banach Center, Warszawa)**

Professor: Adam Skalski

**Weierstrass Institute for Applied Analysis and Stochastics (WIAS, Berlin)**

Deputy Director: Wolfgang Koenig, Knowledge Tr. manager: Torsten Koehler

**Centers not represented:**

**Centre Interfacultaire Bernoulli (CIB, Lausanne)**

**Centrum Wiskunde & Informatica (CWI, Amsterdam)**

**Institute Henri Poincaré (IHP, Paris)**

**Fraunhofer-Institute für Techno-und Wirtschaftsmatik (ITWM, Kaiserslautern)**

**Emmy Noether Research Institute for Mathematics (Ramat Gan)**

**Erwin Schrödinger International Institute for Mathematical Physics (ESI, Wien)**

**15 April 2016**

**14:15-15:45 Session 1**

**Item 1: Adoption of Agenda**

The meeting starts with Chairman Ari Laptev welcoming the participants and thanking this year's organizer, Euler International Mathematical Institute

The agenda were adopted without change.

**Item 2: Adoption of Minutes of the ERCOM Meeting in Zürich 2015**

The minutes were adopted.

**Item 3: News from the ERCOM institutes**

**Stefan Banach International Mathematical Center (Banach Center, Warszawa)**

Professor Adam Skalski report

The staff has increased by 30% during the years.

Increasing of 30% of staff. The economy is going well. Work on infrastructure to improve the facilities. They got funds from Simon Foundation last year. All semesters are booked until the end of 2017.

**Institut des Hautes Études Scientifiques (IHÉS, Bures-sur-Yvette)**

Director: Emmanuel Ullmo report

Have one new employed professor. The budget for 2015 was ok but it will be more difficult during 2016. They also received funding from Simon Foundation.

Program courses by invited persons. Summer school every year, open call hoping people to organize summer school (2 weeks) mid of July.

IHES have had financial problem with a EU-program

**Alfréd Rényi Institute of Mathematics (Rényi Institute, Budapest)**

Director Péter Pálffy reports that they have similar problem. They now have 5 ERC grants. The institute do not have enough space.

There will not be any conferences this summer.

**Centre de Recerca Matemàtica (CRM, Barcelona)**

Professor Lluís Alsedà Soler report

Barcelona school of mathematics is the umbrella for universities in Barcelona. The goal is to promote mathematical research in Catalonia. No legal now entity with CRN in promoting research mathematics in Catalonia.

2-3 research programs. Receiving money for the research.

Foundings from Catalonia government, CRM and Simon Foundation

### **Euler Mathematical Institute, St. Petersburg, Russia**

Director: Ludwig Faddeev

Euler Institute has some permanent staff. Due to financial problems they do not have permanent funding for the activities. They need to seek fund for each conference separately, about 15 conferences each year. They also plan to build a new building for their research guests -sort of hotel. Euler will send in an application for hosting the International Congress in 2022.

### **Max-Planck-Institut für Mathematik (MPI-M, Bonn)**

Scientific Coordinator Pieter Moree reports that

When they get applications for organizing conferences their acting director evaluate the applications..

They have 4 positions for 5 year-senior researchers doing full time research.

Every 2 years there a workshops "Arbeitsstafung" where they talk about what is new in the mathematics.

Next year there will be a many interesting conferences.

### **Scuola Normale Superiore, Pisa, Italy**

#### **Centro di Ricerca Matematica Ennio De Giorgi (Pisa)**

Director Stefano Marmi reports

It is decided that the Scuola Normale Superiore will be renewed for another 5 years.

The funding is 1 million for 5 years.

They have about 1000 visitors a year. Hopefully they can have one open course next year.

### **Abdus Salam International Centre for Theoretical Physics (ICTP, Trieste)**

Consultant: Francesco Pappalardi reports,

Has a double mandate promote science in dev countries and .....??

5 members cover diff area of mathematics. There are a variety of programs. They have ex Program for distinguished researchers.

ICTP is planning 9 workshops. 4 of them will be in Trieste. ICTP and INdAM will sponsor half of the cost each.

CIMPA is an international organization working for the development of mathematics research in developing countries.

ICTP now has programs together with Mexico, Vietnam. And short courses in Benin. They are also planning for courses in Peru and Paraguay.

There is also collaboration with Ghana and Rwanda.

### **Istituto Nazionale di Alta Matematica "Francesco Severi" (INdAM, Roma)**

Administrative Director: Custode Lofiego

INdAM has big problems with the budget.

INdAM has a complicated mission to promote full training full research for young post docs in mathematics in Italy. To promote to maintain international relation and develop initiative.

Doctoral level participation, gets 3000 Euro/month (Corfund)

2016-2017 there will be 5 more workshops.

Happy with the new program with ICTP and CNRS. They just signed an agreement.

### **Instituto de Ciencias Matemáticas (ICMAT, Madrid)**

Researcher Kurusch Ebrahimi-Fard reports

There is some major new. They have now a new director, Antonio Cordoba .

There will be three new laboratories and also ten European research programs

### **Institute of Mathematics ASCR (Praha)**

Director Jiří Rákosník reports

The Institute has just through a large research evaluation. the only institute who organizes. The result will be released in the end of April. The information thy got so far is that the institute is one of the best institute in the academy in mathematics and computer science in the country. The budget will probably increase, the current government is in favor for research. The ERC grant, 2013-2014 is used. ASCR can offer good salaries for postdoc , but it is difficult to get good candidates. It will be three Summer schools this year.

### **Max-Planck-Institut für Mathematik in den Naturwissenschaften (MPI-MIS, Leipzig)**

Scientific Coordinator: Joerg Lehnert reports

They now have a group of five members in their research group.

Leipzig Don't have scholarships, they have employment.

Bonn have scholarships.

They will have three conferences or more.

### **Johann Radon Institute for Computational and Applied Mathematics (RICAM, Linz)**

Director Ulrich Langer reports

RICAM now have a circulatory directorship every four year.

Every institute and university in Austria has gone thru a 2-days evaluation.

RICAM has suffered with one-year budget but since 2015 it is a 3 year-budget which of course gives more stability for planning. Since 2015 they have organized a special semester. During 2016 four workshops.

2017 a special semester, mathematic in social sciences. 2.5 month until Christmas .In 2017 a big conference.

### **Centrum Wiskunde & Informatica (CWI, Amsterdam)**

Dick Broekhuis

60 permanent staff, 200 postdocs

Right now it is an International peer review done every 6 years.

A major reorganization will be implemented this year.

Many celebrations this year.

Last week implemented a policy to have more cooperating with private companies.

Finance 1-1. Many celebrations this year.

### **Basque Center for Applied Mathematics (BCAM, Bilbao)**

**Scientific Director: Luis Vega Gonzalez**

Starting a human strategy for researchers.

Mathematics are doing good in Spain especially in terms of funding.

### **Centro Internacional de Matemática (CIM, Coimbra)**

Director: José Francisco Rodrigues report

CIM was evaluated one year ago.

Got a small financing.

### **Mathematisches Forschungsinstitut Oberwolfach (MFO, Oberwolfach)**

Scientific administrator Stephan Klaus

Budget and program is stable.

They had a large evaluation last year. The outcome of the evaluation decides the funding for the next 7 years.

Plans for changing the library

Advertise MFO – Prize of 10000 Euro to junior researchers in Discrete mathematic

Special funds for activities such as exhibition, software, and network activities

### **European Institute for Statistics, Probability, Stochastic Operations Research and their Applications (Eurandom, Eindhoven)**

Scientific Director: Remco van der Hofstad report

Established in 1998. In 2011 it became a workshop center.

The institute has a very good economy.

They have 8-10 workshops every year.

### **International Centre for Mathematical Sciences (ICMS, Edinburgh)**

Scientific Director: David Abrahams

No long term staff except for the administration staff.

ICMS has weekly workshops.

As well as other institute they have problem with the money. Right now they have 18 months funding.

ICMI and INI has been evaluated and both got good evaluations.

ICMS needs more space. Expecting new building for long term.

A new director will be appointed.

### **Isaac Newton Institute for Mathematical Sciences (INI, Cambridge)**

Scientific Director ICMS, David Abrahams reports

David will be the new director of INI from September this year

The programs are 4-6 months long. Infrastructure is very healthy.

They will be given 7-8 year funding in the future. Support for long term program with funding of their travel and per diem.

INI will celebrate its 250<sup>th</sup> anniversary and there will be activities.

### **Weierstrass Institute for Applied Analysis and Stochastics (WIAS, Berlin)**

Deputy Director: Wolfgang Koenig

Finally, they have got a new director, Prof. Dr. Michael Hintermüller. He is now building a new research group.

The institute is running well and they have a lots of workshops and guests Eventually they will get less money as from it is right now.

They had their Celebration of 200<sup>th</sup> year's celebration of Karl Weierstrass birthday last year.

## **Centre International de Rencontres Mathématiques (CIRM, Marseille)**

Director: Patrick Foulon

CRIM has approximately 3500 visitors per year. 35% of the guests comes from outside France.

They have planned their semesters until 2017.

They are planning to rebuild some areas during 2018. And after that they can host more researchers.

Digital facilities to spread research.

CRIM has a Policy of knowledge transfer.

## **Institut Mittag-Leffler, Stockholm, Sweden**

Director Ari Laptev report

2016 is a special year for IML On 16 march it was the 100 years anniversary of the IML. The same week IML together with Stockholm university organized the 27<sup>th</sup> Nordic congress in mathematics. The congress was very successful and had about 600 participants and many famous speakers.

IML has substantial funds. This year we also got founding from Simon Foundation. The extra founding is to support an extra workshop for about 25 people in our long term programs. This summer we will have 9 conferences and 2 summer schools.

The infrastructure is also getting better and better. We will renovate more flats this summer. Rebuilding the main building's façade continue. And after the summer we hope to start renovate another building so we can get a new bigger seminar room for about 79 people.

### **16:15 – 17:30 Session II**

#### **Report EMS meeting**

**Pavel Exner**

25<sup>th</sup> anniversary. Heading big events. This year there are 2, 3 and 4 year summit.

The executive committee decided Arman as elected for 4 years.

2 vacancies: Françoise not decided to run for the next term. 5 vacancies more.

The election will be competitive and interesting. There will be discussions regarding lifetime membership.

Congress: in the final stage of preparation. 1300 participants. The congress will have highlights and one of them are the prizes: EMS prize winners. Next congress will be in 2020. Just now it is two who has applied to host the congress. One comes from Sevilla and another one from Otoroch small town in Slovenia.

EMS publishing committees. Most important is EMS publishing house.

Discussions about open access or not.

Another publishing activity is roughly 4 years editor in chief. The terms is ending and now there is a successor. A new editor in Chief since April is Ostanov.

Central blot has also got a new editor in chief.

#### **Item 5: What can be the role of the ERCOM centers in promoting practices that ensure equal opportunities for women**

(Marie-Françoise Roy) chair of the IMU committee for Women in Mathematics:

*Identity good practices and to generalize to other parts in the world (Europe is a good lab).*



Marie-Francoise Roy gave a report on promoting practices that ensure equal opportunities for women.

INI MFO and CRIM and ICMS gave a report on how they work with this issues.

**INI:** Samantha Skehel gave a report from INI and answered questions on gender imbalance.

**MFO:** Stephan Klaus

To increase the number of female is to ask the organizer should the number of female participants is not balance with the number of male participants.

The childcare is partly paid by MFO. But they do not have childcare person employed.

It is also important that the institute is safe enough for small children.

### **CIRM: Patrick Foulon**

Patrick Foulon talked about:

Equal opportunities for women at CIRM

2015 CIRM participants: 21% CIRM female participants and 79% male participants.

2015 CIRM speakers: 14% female speakers and 79% of male speakers.

To force more women as organizers.

To have more women speakers. How to make this happen.

Gender balance on committees. Scientific Org quote of speakers.

*Constraints:*

Length of stay: very short stays

Quietness for work: potential noise disruption

Estates and buildings. Old buildings not safe for children

Wild nature, park not landscaped, wild animals

Environment: At the heart of a university campus: many external pedestrians

### *Current actions and future projects*

Offers suggestions for participants coming with a family ale

Appoint a dedicated family referent who can advise on accommodation issues

Dedicate (soon) one of the studios to family visits

Offer a special service for long stays

Our limitations – whatever we may want to do

Restaurant and work areas incl. library

### **ICMS: Jane Walker**

Jane Walker talked about: Try to increase the female participations.

Participants cannot stay at the Edinburgh university if they have children younger than 14 years. They do not have responsibility for childcare, but can pay for the extra hours needed for childcare.

**16 April 2016**

**09:00 – 11:00 Session III**

**Item 6: Report from Administrators Meeting (Annika Augustsson)**

No specific issue was discussed but we continued on discussing the gender balance.

Discussion was also about Simon Foundation.

Recommendations of the outcome of the Administrators meeting:

Gender policy to be informed on the website

Sanction about the participation if women's participation are less

Put the challenge for women to apply

Survey to woman mathematicians: constraints that prevent on participating, cultural problem

Propose to IMU Committee for Woman in Mathematics to carry out the survey

**Item 7: The Voices of Scientists in Europe - Initiative for Science in Europe (ISE) & Euroscience (Martin Andler, Euroscience)**

*Is the scientific community a silent community?*

*To be heard you need to speak out in an effective way.*

Martin Andler gave a report on:

*What is ESOF?*

Created in 2004 by Euroscience

Biennial pan-European meeting dedicated to scientific research and innovation

Europe's most important interdisciplinary forum

Learn about new trends and directions in research, business, science policy

*ISE – Euroscience*

Unsustainable situation for ISE

As of January 2017, ISE will be incorporated as a legal org in Strasbourg. ISE will be house by Euroscience

*The H2020 midterm review*

ISE and Euroscience have agreed to act jointly on the preparation of the h2020 midterm review

A (short) list of crucial points is being established: The Manchester declaration

They will be presented to commissioner Moedas at ESOD in Manchesters in July, and to the press and the public

*How the voice of researchers can be heard!*

It is a big challenge how ISE will deliver in 2 years. We need to speak up, the important the issue is how to be heard in the international level.

**Item 8: EPDI scheme (Emmanuel Ullmo, Ari Laptev)**

The situation of EPDI is not very good.

EPDI decided not to have any call this year, so no fellows were invited this year. All EPDI members are willing to come back to the previous acting if ERDI can get funding.

It was decided that IML will apply for funding to EPDI from Corfund.

## **Item 9: Reports from ICMAT and BCAM**

### **Report from BCAM**

Luis Vegas presented BCAMs report on its visiting program

### **Report from ICMAT**

Kurusch Ebrahimi-Fard presented ICMAT's report on their creation of their International advisory board.

### **Adoption of Resolutions and Actions**

Pavel Exner will inform EMS Executive committee that both BCAM's report on their visiting program and ICMAT's report on International advisory board was satisfying.

Next year every institute has to share their experience on how to improve the gender issue/program.

## **Item 11: Time and Venue of Next ERCOM Meetings**

Next ERCOM meeting will be in Linz, Austria, 28-29 April 2017

The meeting starts at lunch Friday 28 April and ends at lunch 29 April

The easiest way to go to Linz is to take a flight to Vienna. The fast train from Vienna airport to Linz takes about 1 hr 40 minutes.

In 2018 the ERCOM meeting will be held at The Emmy Noether Research Institute for Mathematics in Ramat Gan, Israel. Dates will be decided at the next meeting.

In addition, it was also suggested to plan the venue of the ERCOM meeting 2019 The meeting will then be held at BCAM - Basque Center for Applied Mathematics , Bilbaio, Spain

## **Item 12: Any Other Business**

Consultation on H2020 open until end of April. The attempt to attach/include mathematics in H2020.

How to bring mathematics find its way what Euroscience would do in July.

**Webpage of EMS.** To describe what the ERCOM are doing. Put links to the institutes programs at EMS homepage

### **End of the ERCOM meeting**

Ari Laptev concludes with thanking all participants for fruitful discussions, both formal and informal.

On behalf of ERCOM members Ari Laptev expressed his gratitude to Euler International Mathematical Institute for the excellent organization of the meeting

## **Minutes:**

Annika Augustsson (ERCOM scientific secretary) and Sri Sahlin, Institut Mittag-Leffler

April, 2016