

Times are in Central European Summer Time (CEST).

Monday 26 July

Chair: Brittney Miller

16:00-16:15	Welcome
16:15-17:30	Panel and Roundtable Discussion: AWM and EWM
17:30-19:00*	Group Work

Tuesday 27 July

Chair: Francesca Arici

16:00-16:15	Group Updates (Groups 1 and 2)
16:15-17:30	Panel and Roundtable Discussion: Funding Opportunities
17:30-19:00*	Group Work

Wednesday 28 July

Chair: Fernanda Botelho

16:00-16:15	Group Updates (Groups 3 and 4)
16:15-17:00	Invited Speaker: Pauline Mellon
17:00-17:30	Roundtable Discussion: Breakout Rooms on Various Topics
17:30-19:00*	Group Work

Thursday 29 July

Chair: Brittney Miller

****Note the different starting time.**

17:00-17:15	Group Updates (Group 5)
17:15-18:00	Invited Speaker: Andrea Bertozzi
18:00-18:30	Roundtable Discussion: Setting a Research Agenda and Forming/Maintaining Collaborations
18:30-20:00*	Group Work

Friday 30 July

Chair: Fernanda Botelho

16:00-16:45	Invited Speaker: André Ran
16:45-16:50	Break
16:50-17:40	Group Updates and Future Plans
17:40-19:00*	Group Work

*This Group Work time is a suggestion only. PLs and co-PLs should work with the participants in their group to find a convenient meeting time and plan synchronous/asynchronous activities for Group Work for 1.5-2 hours each day.

Monday 26 July

Chair: Brittney Miller

Panel and Roundtable Discussion: AWM and EWM

Ruth Haas was the president of the Association for Women in Mathematics (AWM) from 2019 to 2021 and currently serves on the Executive Committee of the AWM as the Past President. Haas is a Professor of Mathematics at the University of Hawaii, Manoa. She is also Achilles Professor Emerita in Mathematics and Statistics at Smith College where she worked from 1989 to 2017. At Smith she co-founded and co-directed the Center for Women in Mathematics which received the 2011 AMS Programs that make a difference award for its post-baccalaureate program. Ruth Haas was the 2015 recipient of the AWM Humphries Award for Mentoring undergraduate women to continue to Ph.D.s in the mathematical sciences. ¹

Sylvie Paycha was the Convenor of the association for European Women in Mathematics (EWM) from 1995 to 1997 and currently serves on the Standing Committee of the EWM. Paycha is a Professor of Mathematics at the University of Potsdam and on leave from the University Blaise Pascal in Clermont-Ferrand, France. She is the creator of the exhibition [Women of Mathematics throughout Europe: a gallery of portraits](#) and the movie [World of Women in Mathematics in the Time of Corona](#). ²

¹<https://awm-math.org/about/executive-committee/>

²<https://www.europeanwomeninmaths.org/sylvie-paycha/>

Tuesday 27 July

Chair: Francesca Arici

Panel and Roundtable Discussion: Funding Opportunities

Marian Bocea is the Program Director of Analysis in the Division of Mathematical Sciences at the U.S. National Science Foundation. He will give a brief overview of the funding opportunities available in the Division of Mathematical Sciences (DMS) at the U. S. National Science Foundation. The mission of DMS is to support research at the frontiers of discovery in mathematical sciences, and to support education in the mathematical sciences through research involvement of trainees. The emphasis of this presentation will be on programs aimed at early-career researchers and at broadening participation.

Kimberly Williams is an Outreach and Recruitment Officer for the Fulbright U.S. Scholar Program with the Institute of International Education. She will present on individual research and teaching opportunities available for Master's students, Ph.D. students, faculty, professionals, and administrators through the Fulbright U.S. Scholar program and the Fulbright U.S. Student Program.

Angela Noble is the Senior Grant Advisor with Luris, the Knowledge Exchange Office of Leiden University and Leiden University Medical Center. She will give a general introduction to Horizon Europe, focusing on individual grants and highlighting the opportunities to collaborate.

Wednesday 28 July

Chair: Fernanda Botelho

Invited Speaker: Pauline Mellon

Pauline Mellon completed her Bachelor's and Master's degrees in Mathematics at University College Dublin (UCD), after which she received the Travelling Studentship in Mathematical Sciences from the National University of Ireland. Her doctoral work was at the University of Tuebingen, Germany and UCD. She held a permanent position in the Department of Mathematics at St. Patrick's College, Maynooth before returning to a Lectureship in UCD. She has held fellowships from the Mathematisches Forschungsinstitut Oberwolfach, Germany and from EPSRC, the Engineering and Physical Sciences Research Council of the UK. She is an Associate Professor in the School of Mathematics and Statistics. She is a past President, Vice-President and Secretary of the Irish Mathematical Society. She is a committee member of the Physical, Chemical and Mathematical Sciences Committee of the Royal Irish Academy since 2014. ³

Title: Jordan Structures, Linear Operators and Operator Algebras.

Abstract: Many operator algebras have a natural underlying Jordan structure. Indeed, this is true for every Banach space with a homogeneous open unit ball, B , so including, among other spaces, all C^* -algebras, Hilbert spaces and $L(H, K)$, for Hilbert spaces H and K . The Jordan structure, arising from the biholomorphic maps of the ball B , denoted $\text{Aut}(B)$, facilitates the use of complex analytic techniques and allows a fruitful interplay of holomorphy and algebra. The linear maps arising as derivatives of elements in $\text{Aut}(B)$ are key to the geometry of B and can be described in terms of the Jordan product and Bergmann operators. The properties of the Bergman operators are therefore central to the study of the space.

In this talk, I will introduce the Bergman operators and look at their roles and properties. While the holomorphy-algebra interplay means, among other things, that Hermitian operators have a simple algebraic description in the Jordan setting, the Bergman maps are unfortunately not themselves Hermitian (in general). I will also show how complex methods can sometimes give simple insightful proofs of deep algebraic results.

³<https://people.ucd.ie/pauline.mellon>

Thursday 29 July

Chair: Brittney Miller

Invited Speaker: Andrea Bertozzi

Andrea Bertozzi is an applied mathematician with expertise in nonlinear partial differential equations and fluid dynamics. She also works in the areas of geometric methods for image processing, social science modeling, and swarming/cooperative dynamics. Bertozzi completed all her degrees in Mathematics at Princeton. She was an L. E. Dickson Instructor and NSF Postdoctoral Fellow at the University of Chicago from 1991 to 1995, and the Maria Geoppert-Mayer Distinguished Scholar at Argonne National Laboratory from 1995 to 1996. She was on the faculty at Duke University from 1995 to 2004 first as Associate Professor of Mathematics and then as Professor of Mathematics and Physics, where she also served as the Director of the Center for Nonlinear and Complex Systems. Bertozzi moved to UCLA in 2003 as a Professor of Mathematics, and in 2018, she was also appointed Professor of Mechanical and Aerospace Engineering. Since 2005 she has served as Director of Applied Mathematics, overseeing the graduate and undergraduate research training programs at UCLA. In 2012 she was appointed the Betsy Wood Knapp Chair for Innovation and Creativity. She served as Chair of the Science Board of the NSF Institute for Computational and Experimental Research in Mathematics at Brown University from 2010 to 2014 and previously on the board of the Banff International Research Station. She served on the Science Advisory Committee of the Mathematical Sciences Research Institute at Berkeley from 2012 to 2016.

Bertozzi's honors include the Sloan Research Fellowship in 1995, the Presidential Early Career Award for Scientists and Engineers in 1996, and SIAM's Kovalevsky Prize in 2009. She was elected to the American Academy of Arts and Sciences in 2010 and to the Fellows of the Society of Industrial and Applied Mathematics (SIAM) in 2010. She became a Fellow of the American Mathematical Society in 2013 and a Fellow of the American Physical Society in 2016. She won a SIAM outstanding paper prize in 2014 with Arjuna Flenner, for her work on geometric graph-based algorithms for machine learning. Bertozzi is a Thomson-Reuters/Clarivate Analytics 'highly cited' Researcher in mathematics for both 2015 and 2016, one of about 100 worldwide in her field. She was awarded a Simons Math + X Investigator Award in 2017, joint with UCLA's California NanoSystems Institute (CNSI). In May 2018 Bertozzi was elected to the US National Academy of Sciences. In July 2019 she was awarded SIAM's Kleinman Prize, which recognizes contributions that bridge the gap between high-level mathematics and engineering problems. The award is based on the quality and impact of the mathematics. ⁴

⁴<https://www.math.ucla.edu/~bertozzi/bio.html>

Friday 30 July

Chair: Fernanda Botelho

Invited Speaker: André Ran

André Ran completed his Bachelor's and Master's degrees at Vrije University (VU) Amsterdam, all well as his doctoral work. Afterward, he received a grant from the Niels Stensen Foundation to spend a year as a postdoc at the University of California at San Diego, Virginia Tech, and the University of Alberta in Calgary. He is a Professor of Mathematics at VU Amsterdam, and he holds a position as extraordinary professor at the Unit for Business Mathematics and Informations at North-West University in Potchefstroom, South Africa. He is the Secretary and Treasurer of the Advanced of Mathematics Foundation in Amstelveen, and he is a Board Member for the Epsilon Foundation in Amsterdam. ^{5,6}

Title: Equivalence after extension and Schur coupling

Abstract: The talk will discuss two notions relating a pair of operators. It is known that the notions coincide for finite dimensional case, and for Fredholm operators with index zero on arbitrary Banach spaces, as well as for Fredholm operators of any index on Hilbert spaces.

In the last few years the question whether the two notions always coincide has been settled, and several interesting results connecting this question to Banach space geometry have been obtained.

The talk is based on joint work with Sanne ter Horst, Miek Messerschmidt, Mark Roelands and Marten Wortel.

⁵<https://www.math.vu.nl/~ran/>

⁶<https://research.vu.nl/en/persons/acm-ran>