



INFOMAT

APRIL 2022



Den 63. Internasjonale matematikkolympiaden finner sted i Oslo i tiden 6. til 16. juli 2022. Arrangør er Matematisk institutt, UiO i samarbeid med Kunnskapsdepartementet og Universitetet i Oslo

INFOMAT kommer ut med 11 nummer i året og gis ut av Norsk Matematisk Forening. Deadline for neste utgave er alltid den 15. i neste måned. Stoff til INFOMAT sendes til

arnebs at math.uio.no

Foreningen har hjemmeside <http://www.matematikkforeningen.no/>
Ansvarlig redaktør er Arne B. Sletsjøe, Universitetet i Oslo

Matematisk kalender

2022

Mai:

23.-25. Abelprisutdeling, Oslo

<abelprisen.no>

30.-1. juni Conference on Climate, Weather and Carbon Risk in Energy and Finance, Oslo

<<https://www.mn.uio.no/math/english/research/projects/spatus/events/conferences/conference-on-climate-weather-and-carbon-risk-in-e/index.html>>

Juni:

1.-2. MatRIC Annual Conference 2022,

Kristiansand <<https://www.uia.no/konferanser-og-seminarer/matric-annual-conference-2022>>

2.-3. Mathematics meet industry, Trondheim

<<https://www.ntnu.edu/imf/mathmeetsindustry>>

3.-4. Øyvind 60, in celebration of Øyvind Solberg's 60th birthday, Trondheim

<<https://wiki.math.ntnu.no/oyvind60>>

6.-10. Abelsymposiet 2022: Triangulated categories in representation theory and beyond, Ålesund

<<https://wiki.math.ntnu.no/abel2022/>>

7.-9. 14. Nordiske

kombinatorik-konferanse, Tromsø

<<https://norcom2022.puremath.no/>>

12.-19. Seminar Sophus Lie, Nordfjordeid

<<https://www.mathematik.uni-marburg.de/agricola/SSL2021/>>

20.-24. Topics in real and tropical algebraic geometry, Nordfjordeid

<<https://www.mn.uio.no/math/english/research/groups/algebra/events/conferences/nordfjordeid2022/index.html>>

Juli:

6.-16. IMO 2022, Oslo

<<https://www.imo2022.org/>>

August:

8.-12. Motivic Geometry, Oslo

<<https://sites.google.com/view/motivicgeometry-conference/home/>>

September:

1.-2. Nasjonalt matematikermøte, Tromsø

<<https://nmm2022.puremath.no/>>

Nye doktorgrader

Giovanni Domenico Di Salvo ved Univ. i Oslo forsvarte 8. april 2022 sin avhandling *Proper Holomorphic Embeddings of open Riemann Surfaces into \mathbb{C}^2 and holomorphic mappings between complex manifolds with dense images* for graden PhD.

Veiledere har vært Associate Professor Trung Tuyen Truong and Professor Erlend Fornæss Wold, UiO.

Sammendrag:

One of the biggest open problems in Complex Geometry is whether every open Riemann Surface admits a proper holomorphic embedding into the 2-dimensional euclidean complex space, as this provides a good representation of it.

We constructed examples of this representation for certain Riemann Surfaces that were thought to be good candidates for a counterexample, namely complements of large Cantor sets inside the Riemann sphere. A previous paper provided the desired representation for the same object; here we pointed out that from that construction it turns out that the resulting Cantor set is actually very thin.

Another important result contained in the thesis is the simultaneous construction of the above representation for a whole family of domains inside the Riemann sphere.

Holomorphic embeddings (non-proper) are studied in terms of approximation as well: we give sufficient conditions on domains inside euclidean complex spaces to approximate such mappings on the given domains with similar mappings with dense images. We finally extend this result to more general settings, presenting three further theorems.

Kunngjøringer

I have given recently two "mathematical memories" lectures at EPFL (Lausanne), one on homotopy groups (1951-1952), and one on Cartan-Oka (1952). I enclose the links for these lectures (which are in French).

Best wishes, J-P. Serre

<[https://www.youtube.com/channel/](https://www.youtube.com/channel/UCO60DrAzEcS5ql9_e8hhEmQ)

UCO60DrAzEcS5ql9_e8hhEmQ

<<https://bernoulli.epfl.ch/>

TOPICS IN REAL AND TROPICAL ALGEBRAIC GEOMETRY, 20.-24. juni 2022

Sommerskole ved Sophus Lie Conference Center, Nordfjordeid, 20.-24. Juni 2022

Program: The aim of the summer school is to provide an introduction to recent advances in real and tropical algebraic geometry.

Lecturers:

Antonio Lerario (SISSA, Trieste): Metric algebraic geometry, **Felipe Rincon** (Queen Mary, London): Tropical ideals, **Claus Scheiderer** (Konstanz U): Sums of squares and applications

Registration deadline is **May 2nd 2022** For registration and further information check the web page:

<https://www.mn.uio.no/math/english/research/groups/algebra/events/conferences/nordfjordeid2022/index.html>

NASJONALT MATEMATIKERMØTE, TROMSØ, 1.-2. september 2022

Det andre nasjonale matematikermøte, neste etter Bergen 2018, vil bli organisert i Tromsø 1.-2. september 2022, se <https://nmm2022.pure-math.no>.

Alle vitenskapelige ansatte og emeriti ved UiB, UiO, NTNU, UiT og UiS, inkludert PhD-stipendiater

er invitert. Møtet er sponset av Trond Mohn Stiftelse (TMS), Tromsø Forskning Stiftelse (TFS) og Norsk Matematisk Forening (NMF): reise og opphold til deltagere blir dekket fra TMS/TFS-prosjektet Ren matematikk i Norge Registreringen blir åpen i løpet av neste måneder.

Møtet vil inneholde både plenumsforedrag og foredrag i tre parallelle seksjoner. PhD studenter inviteres til et ekstra møte onsdag 31 august 2022.

På vegne av organisasjonskomite,
Boris Kruglikov.

MATRIC ANNUAL CONFERENCE 2022, 1.-2. juni 2022

Welcome to the MatRIC Annual Conference June 1-2 in Kristiansand.

We are looking forward to finally have the possibility to have a physical conference, where we can share ideas, get new impulses and build network.

Topics of this year's conference:

- Assessments in mathematics- how do we assess mathematical competences?
 - Mathematics support centers
 - Inquiry-based mathematics teaching - and learning
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MATHEMATICS FOR ACTION: SUPPORTING SCIENCE-BASED DECISION-MAKING

Dear colleagues,

We would like to advertise the newly published document "Mathematics for Action: Supporting Science-Based Decision-Making?" which consists of a collection of lively two-page briefs promoting mathematically-grounded solutions to global challenges and highlighting the role of mathematics in addressing the Sustainable Development Goals of the UN 2030 Agenda. It is edited by J.-S. Dhersin, H. Kaper, W. Ndifon, F. Roberts, C. Rousseau, G. M. Ziegler, and published by UNESCO. The document is Open Access, and was mentioned in IMU News 111b.

Please help distribute this interesting document in your community.

Helge Holden

MATHEMATICS MEETS INDUSTRY

On the 2-3 of June we are hosting a meeting called "Mathematics meets Industry" in Trondheim, where, among other things, we will answer the question "what can you do with a PhD?". We encourage PhD students and postdocs from your department to attend and we expect funding will be available to cover at least part of the local expenses for young participants (PhD and postdocs).

The meeting comprises of several core components:

Keynote talks given by well established academics with industrial connections and industrial partners, including their career experiences and views on the perspective of present and future demands of the labor market in and out of academia.

A dedicated session where all PhD students are encouraged to present either their research or something they find mathematically interesting in an accessible style (with the possibility of winning a small prize). Presentations by industrial partners, followed by a partnering event giving all participants the opportunity to interact with industrial partners.

A discussion of funding opportunities in academia

NORDISKE MATEMATIKERKONGRESS – CALL FOR SESSIONS

Næste år afholder vi den 29. Nordiske Matematikerkongress i Aalborg, i samarbejde med European Mathematical Society. Jeg vil høre om du vil reklamere for kongressen i INFOMAT, specielt skulle "call for sessions" proposal (deadline 1. september 2022) gerne spredes snarest.

På forhånd tak og venlig hilsen
Martin Raussen

ICM 2022

Dear Mathematicians,

As you may know, the official ICM 2022 has been reorganised as an online event. We will host some of the talks real life in Copenhagen in an attempt to salvage, on a smaller scale, some of the usual spirit of an ICM. The focus of the event in Copenhagen will be the Geometry and Topology sections, though it will not be restricted to those. Similar events are being organized at other locations. See

<https://www.math.ku.dk/english/calendar/events/icmgeometrytopologysections/>

for further information about the event in Copenhagen, and the ICM satellite coordination group

<https://terrytao.wordpress.com/2022/03/11/2022-icm-satellite-coordination-group/>

for links to other events happening elsewhere (as they become available).

We expect to have limited financial support for junior participants and will hold short communications sessions for junior participants. The deadline for application for funding is *April 30*.

Looking forward to welcoming many of you in Copenhagen! Kai Cieliebak, Thomas Nikolaus and Nathalie Wahl.

ØYVIND 60, Trondheim, 3.-4. juni 2022

Øyvind 60 is a conference hosted by the Algebra group at NTNU, in celebration of øyvind Solberg's 60th birthday.

Speakers **Lidia Angeleri Hügel** (Verona) **Karin Baur** (Leeds) **Karin Erdmann** (Oxford) **Johanne Haugland** (NTNU) **Henning Krause** (Bielefeld) **Matthew Pressland** (Glasgow) **Chrysostomos Psaroudakis** (Thessaloniki) **Jeremy Rickard** (Bristol) **Mads H. Sandøy** (NTNU) **Ralf Schiffler** (Connecticut) **Sibylle Schroll** (Cologne / NTNU) **Jan Stovicek** (Prague)
AND: SPECIAL (VIRTUAL) GUEST: **Ed Green** (Virginia Tech)
