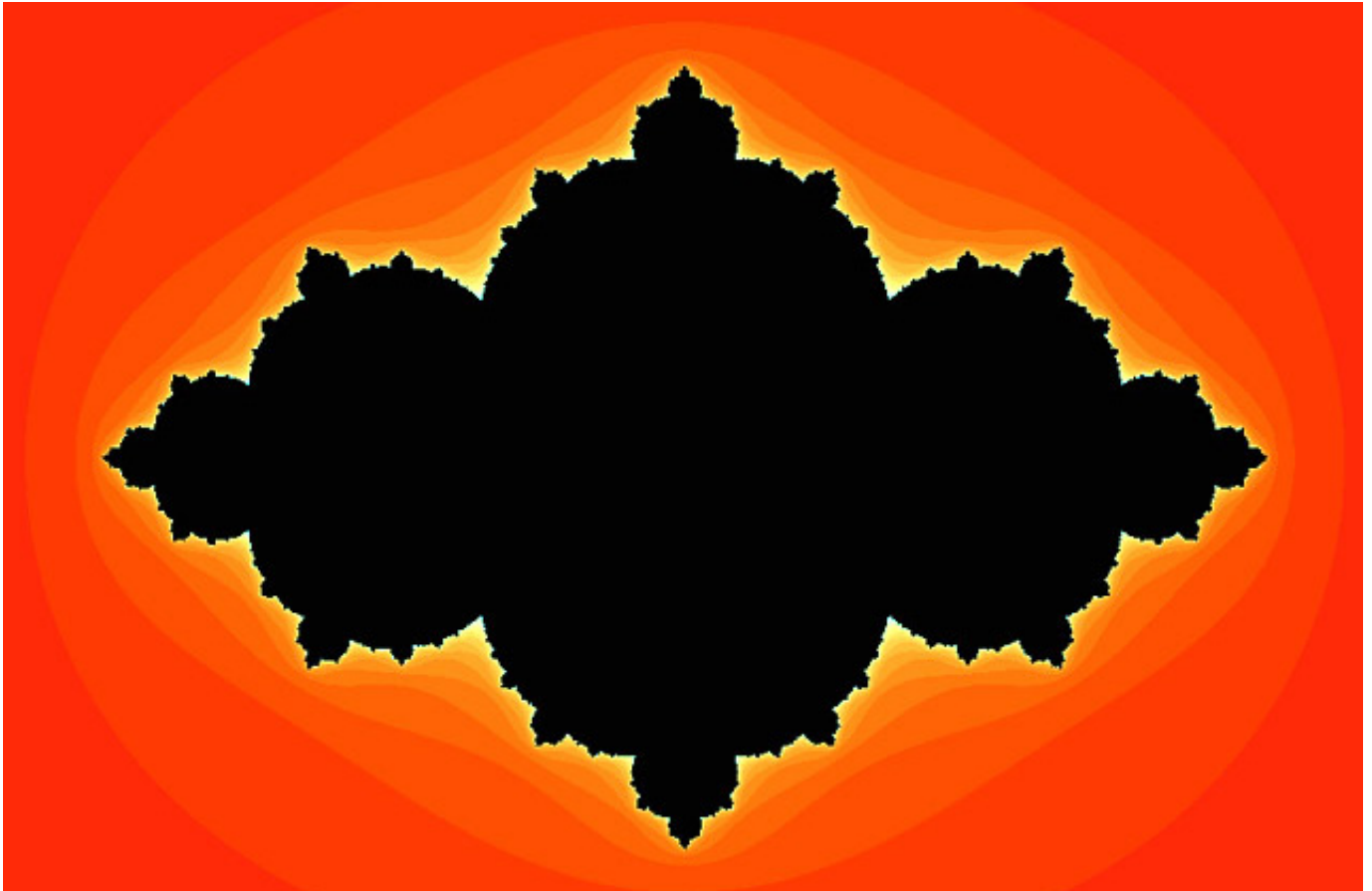




# INFOMAT

Oktober 2018



## JULIA-MENGDEN FYLLER 100 ÅR

I år er det 100 år siden Gaston Julia publiserte arbeidet der han beskrev det som siden er blitt kalt Julia-mengden. Det er også 100 år siden Felix Hausdorff introduserte sitt generaliserte dimensjonsbegrep. Vi markerer dette med et bilde av Julia-mengden assosiert til funksjonen  $f_c(z) = z^2 + 1 - c$ , der  $c = 1.6180\dots$

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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.

# ARRANGEMENTER

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## Matematisk kalender

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**2018:**

*November:*

**8.-9.** Nasjonalt algebramøte, Oslo

*Desember:*

**6.-8.** Enumeration and Moduli, Oslo

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### NASJONALT ALGEBRAMØTE, Oslo, 8.-9. november 2018

Årets nasjonale algebramøte finner sted 8.-9. november 2018 i Oslo, se webside: <https://www.mn.uio.no/math/forskning/grupper/algebra/arrangementer/nasjonaltmote2018/>

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### ENUMERATION AND MODULI, Oslo, 6.-8. desember 2018

A conference in algebraic geometry on the occasion of Geir Ellingsrud's 70th birthday. For further information, see: <http://www.mn.uio.no/math/english/research/groups/algebra/events/conferences/Enumerationandmoduli/index.html>



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## Nyheter

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### BREV FRA PRESIDENTEN I EMS

*Dear colleagues,*

I have a concern to share with you. The matter is the European Research Council, no doubt a highly successful and generally appreciated system supporting research of the highest quality in Europe.

As many of you know, the scheme to distribute money between different research fields is in the ERC based on demand; the means available to each

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particular panel are proportional to the (time averaged) sum requested in that panel in the previous calls. It may not be an ideal system but nothing better was invented, the advantage being that in a long run more money goes to the liveliest science areas.

We have been being told repeatedly that the number of applications in PE1, the mathematics panels, is steadily decreasing. One can understand that many colleagues are reluctant to enter a rather tough contest with the success rate 12-15%, however, the net outcome of this restraint is a decreasing number of ERC grants in mathematics.

I want thus to ask you to reflect this situation and to encourage those in your communities who might be able to compete successfully not to be shy and enter the race; even if they would not succeed at their first attempt, they will still help their colleagues and mathematics as a whole.

With best wishes,

Pavel Exner

EMS President

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### CALL FOR BIDS TO HOST THE INTERNATIONAL DAY OF MATHEMATICS WEBSITE

The IMU is leading the project to declare an International Day of Mathematics (IDM) on March 14 ("Pi Day"). If UNESCO decides to proclaim the IDM, the first celebration is expected to be on March 14 in 2020. Now the IMU is inviting bids to host the website of the IDM. The bid should be drafted according to the guidelines given here. The URL of the IDM website will be [www.idm314.org](http://www.idm314.org). The deadline for the submission of bids is **15 January 2019**. IMU's decision is expected by April 2019. Please submit your bid to [idm@mathunion.org](mailto:idm@mathunion.org) <https://www.mathunion.org/outreach/IDM>

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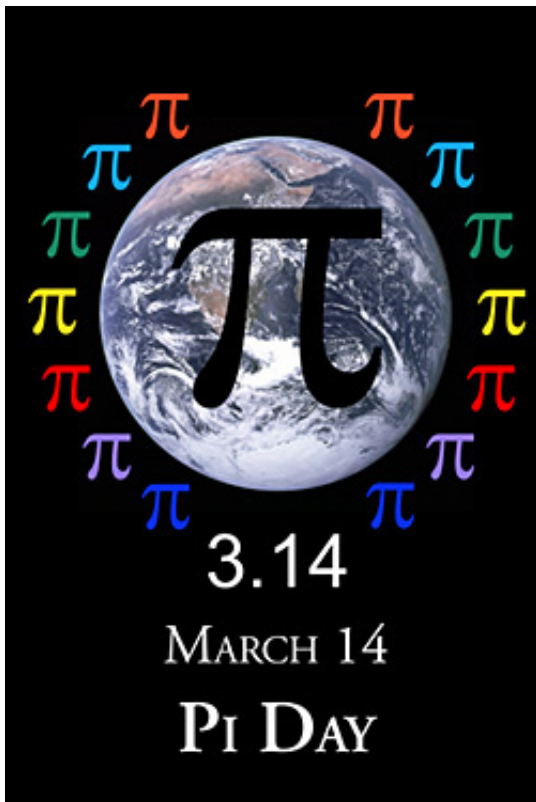
# NYHETER

## INTERNATIONAL DAY OF MATHEMATICS LOGO COMPETITION

The IMU is leading the project to declare an International Day of Mathematics (IDM) on March 14 (“Pi Day”). If UNESCO decides to proclaim the IDM, the first celebration is expected to be on March 14 in 2020. Now the IMU is inviting bids for the logo of the IDM.

Logos together with artist information (full name, date of birth, career or profession, personal webpage if any, and email) must be sent by email at [idm@mathunion.org](mailto:idm@mathunion.org). The deadline for submission of logos to the competition is **31 December 2018**. IMU’s decision is expected by April 2019.

<https://www.mathunion.org/outreach/IDM>



## NORSK REGNESENTRALS PRIS FOR BESTE MASTEROPPGAVE TIL BJØRN SKAULI

**Bjørn Skauli** får prisen for sin masteroppgave *The Cone Conjecture for some Calabi-Yau Varieties*. Veileder var John Chr. Ottem ved Matematisk institutt, UiO.



Masteroppgaven til Bjørn Skauli er innen feltet birasjonal geometri, et underfelt av algebraisk geometri. Birasjonal geometri dreier seg om å klassifisere algebraiske mangfoldigheter, som kurver, flater, volumer, etc. opp til en spesiell form for ekvivalens. To mangfoldigheter er ekvivalente dersom de er isomorfe (essensielt like) utenfor en delmengde av lavere dimensjon. Skauli studerer i sin oppgave den såkalte “Kjegleformodningen”. Kjegleformodningen er en hypotese som gir en sammenheng mellom birasjonal geometri for en spesiell type varieteter, såkalte Calabi-Yau mangfoldigheter, og bestemte kjegler i euklidiske rom. Skauli beviser at kjegleformodningen er sann for store klasser av mangfoldigheter, bl.a. hyperflater i toriske mangfoldigheter og kvosienter av abelske mangfoldigheter.

Ekstern sensor for Skaulis masteroppgave skriver bl.a.: *Skaulis masteroppgave er et imponerende stykke arbeid, og etter mitt syn en av de beste masteroppgavene i matematikk i Norge de siste 6-7 årene. Videre sier han: I tillegg framviser han en sterkt utviklet faglig modenhet, og evne til å gå meget langt inn i problemstillinger som for tida er blant de mest sentrale innen et meget viktig og vanskelig fagfelt.*

