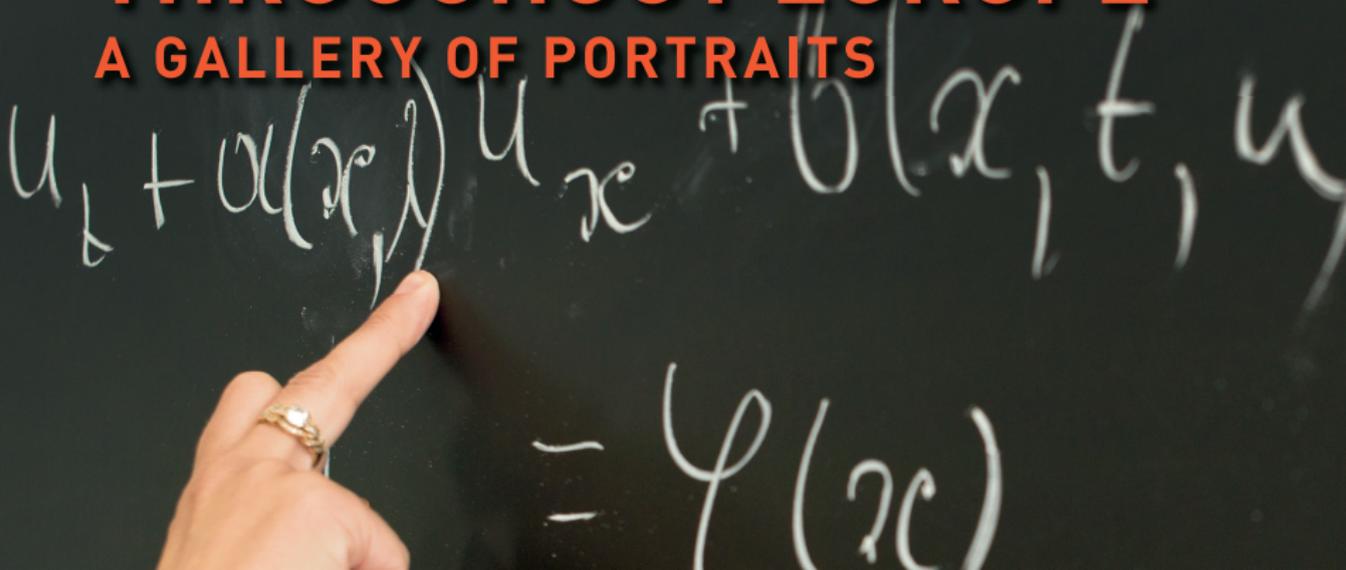


WOMEN OF MATHEMATICS THROUGHOUT EUROPE

A GALLERY OF PORTRAITS



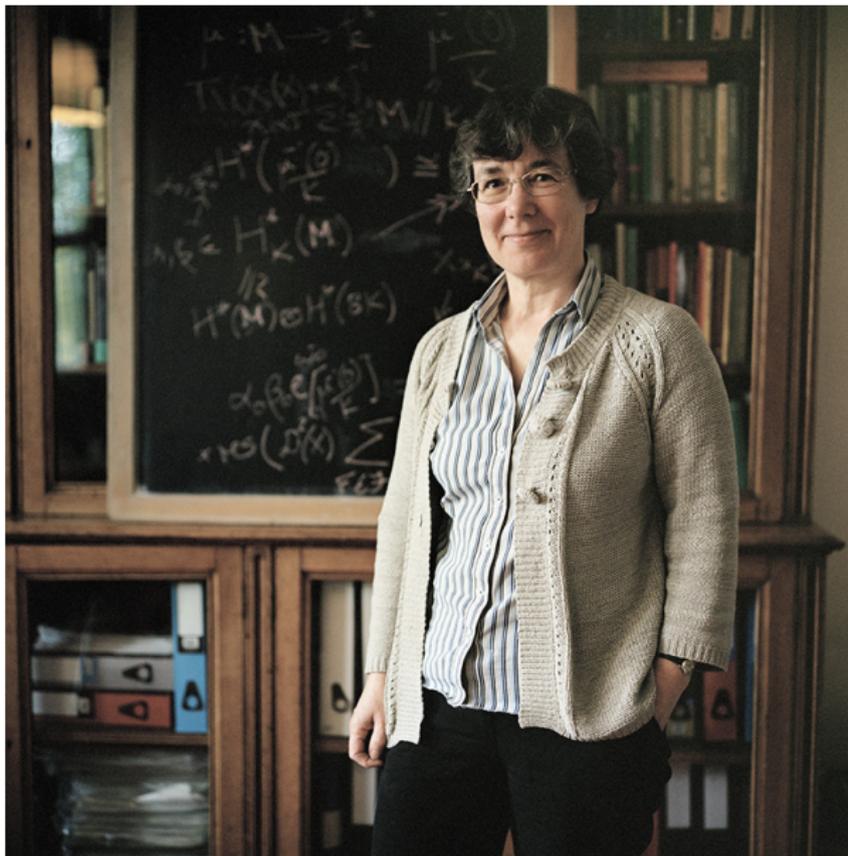


Nalini Anantharaman (Strasbourg): mathematical physics, dynamical systems...



“It is a privilege to create beautiful things without having to worry about their applications.”

Nalini Anantharaman



Frances Kirwan (Oxford): algebraic and symplectic geometry.

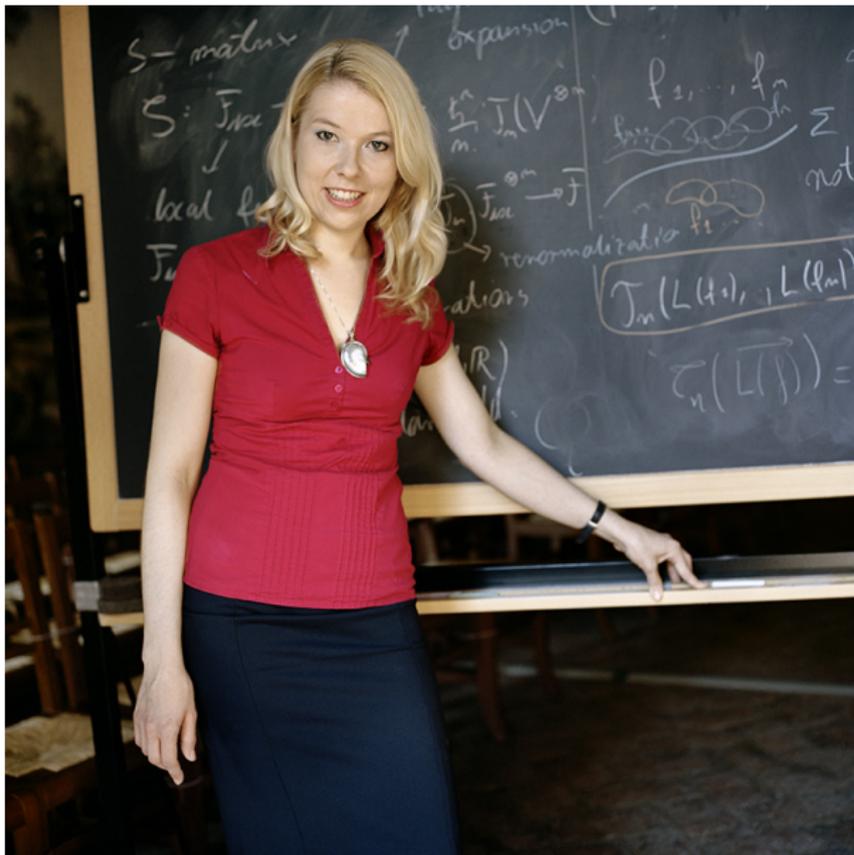


“..the Mathematics Department insisted on addressing me as Mr. F Kirwan in all official correspondence.”

Frances Kirwan

THE EXHIBITION IN LA HABANA





Kasia Rejzner (York): mathematical physics, operator algebras...

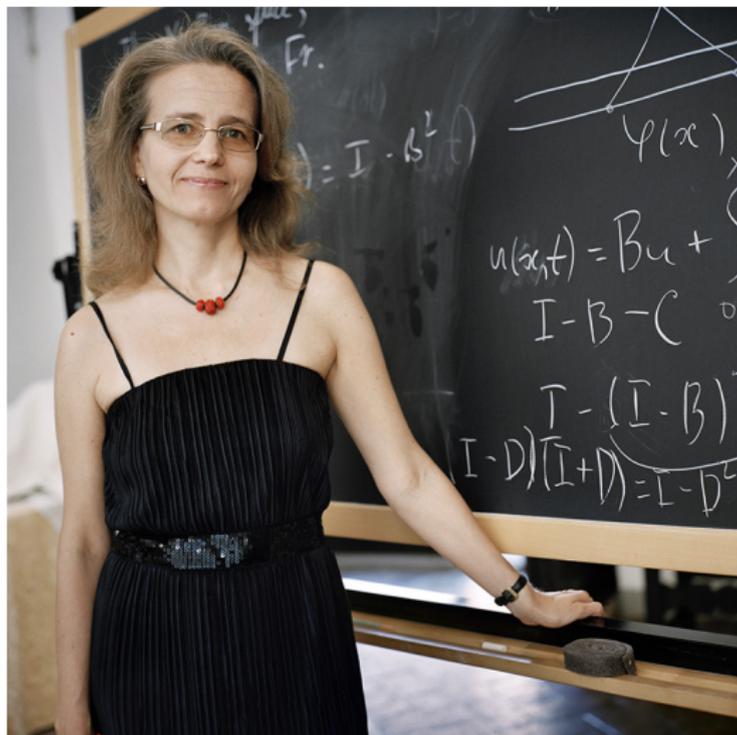


“Making a mistake should not be a reason for getting discouraged.”

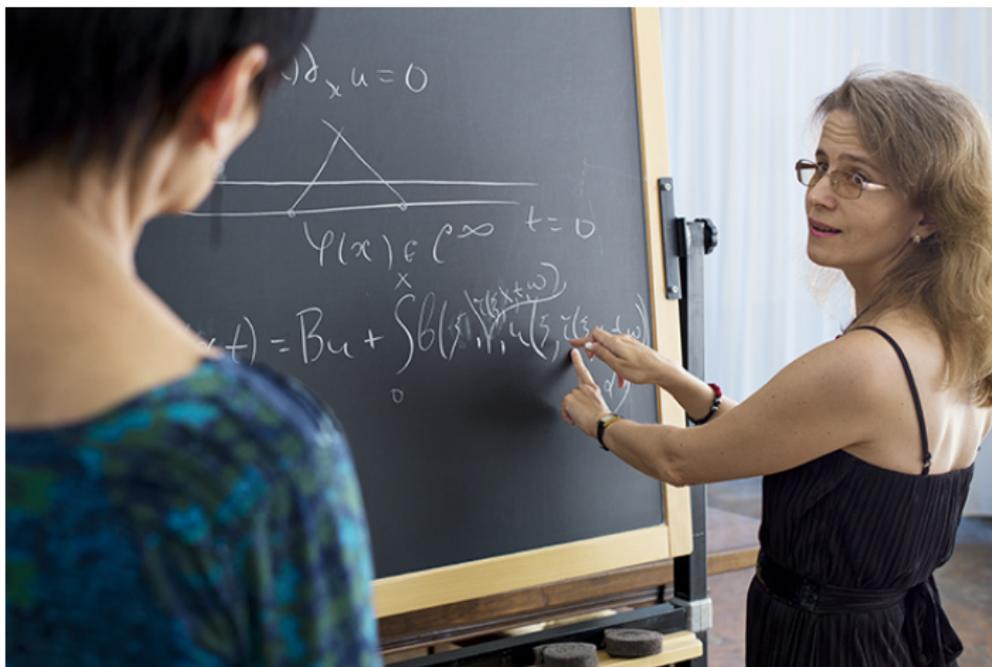
Kasia Rejzner

THE EXHIBITION IN BOGOTA





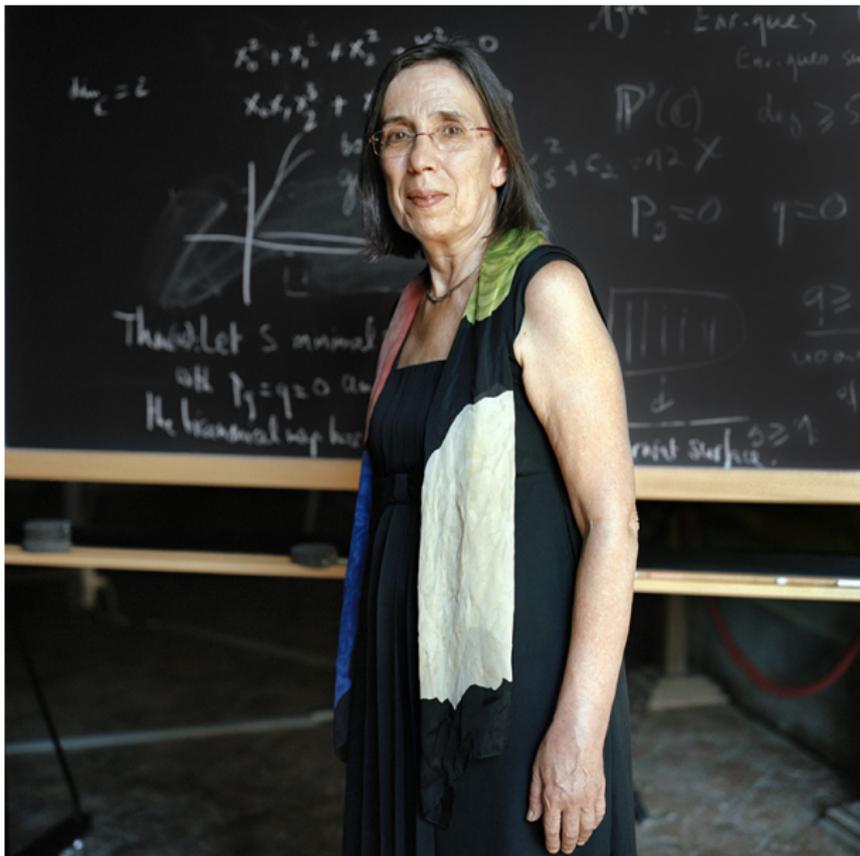
Irina Kmit (Berlin): hyperbolic differential equations, bifurcation and stability analysis...



“[Mathematics] is a language without borders.”
Irina Kmit

THE EXHIBITION IN TORINO





Margarida Mendes Lopes (Lisbon): algebraic geometry.



“[I] felt rather isolated in Lisbon before the era of internet and Skype.”

Margarida Mendes Lopes

THE EXHIBITION IN SINGAPORE





Karin Baur (Graz): cluster algebras, categorification...



“Seeing very young people die of serious illnesses [...] convinced me that I’d rather study mathematics than medicine.”

Karin Baur

THE EXHIBITION IN NANCY

WOMEN OF MATHEMATICS THROUGHOUT EUROPE A GALLERY OF PORTRAITS

A GALLERY OF PORTRAITS

$$y'' + a(x)y' + b(x)y = \varphi(x)$$
$$= \varphi(x)$$
$$= 0$$
$$y(x, t) = \varphi(x)$$

THIRTEEN PORTRAITS
OFFERING AN UNUSUAL INSIGHT
INTO MATHEMATICS



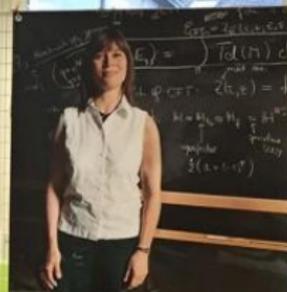
NALINI ANANTHARAMAN

UNIVERSITY OF CHICAGO
1982-2012

Professor of Mathematics, Harvard
University, and former professor at the
University of California, Berkeley, and
the University of Michigan.

$$P_{\text{KMS}}(\mu) \leq \int \mathbb{1}_{\mathbb{R}^+}(\omega) \mu(\omega)$$

She is a recipient of the
MacArthur Fellowship (2005),
the Clay Mathematics Institute
Research Fellowship (2006), and
the National Science Foundation
Career Award (2007).



KATRIN WENDLAND

UNIVERSITY OF
DUISBURG
ESSEN

Professor of Mathematics, University of
Duisburg-Essen, Germany. She is also
a member of the International
Mathematical Research Institute
in Oberwolfach.

$$E_n(x) = \gamma(E_{n-1})$$
$$= \int \gamma(x) \mu(E_{n-1})$$

She is a recipient of the
MacArthur Fellowship (2005),
the Clay Mathematics Institute
Research Fellowship (2006), and
the National Science Foundation
Career Award (2007).



STEFKA BOUVUKLIJEVA

UNIVERSITY OF
SOFIA

Professor of Mathematics, Sofia
University, Bulgaria. She is also
a member of the International
Mathematical Research Institute
in Oberwolfach.

$$\sum_{k=0}^{n-1} \binom{n-1}{k} a_k = \sum_{k=0}^{n-1} \binom{n-1}{k} a_k$$

She is a recipient of the
MacArthur Fellowship (2005),
the Clay Mathematics Institute
Research Fellowship (2006), and
the National Science Foundation
Career Award (2007).



Dušanka Perišić (Novi Sad): functional analysis, generalized function theories.



“[maths at university] was rather different from what I had been taught at school!”

Dušanka Perišić



THE EXHIBITION IN BEIRUT

KARIM SAAD

KATRIN WISNIEWSKI

Handwritten notes and diagrams on a chalkboard background.

KARIM SAAD

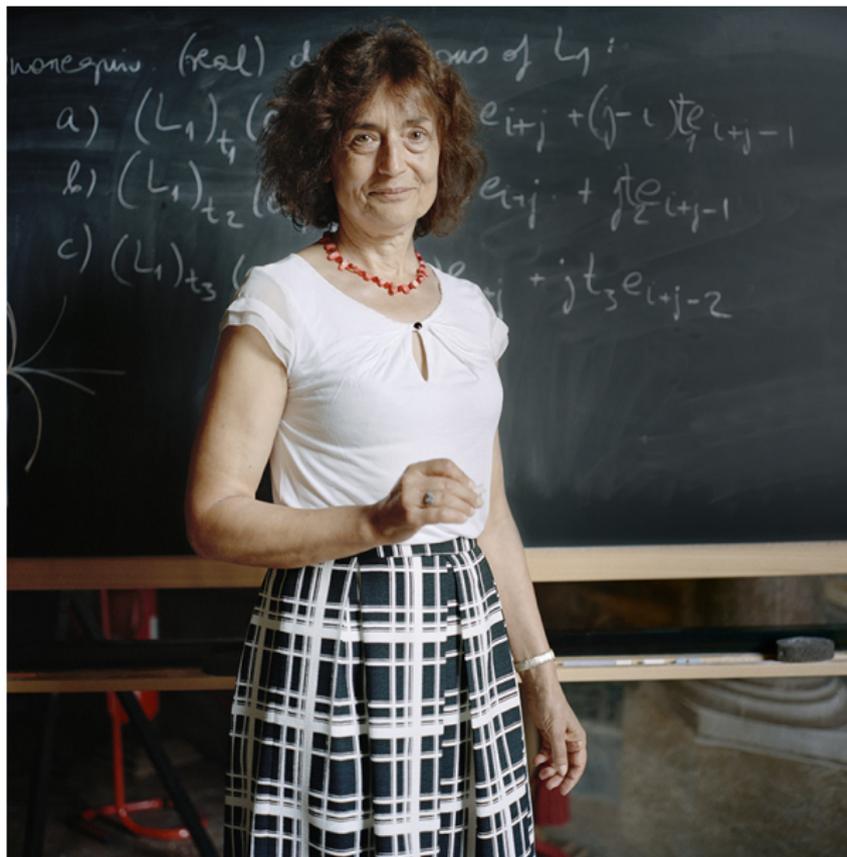
BARBARA NELLI

Handwritten mathematical equations and diagrams on a chalkboard background.

MARGARIDA MENDES LOPES

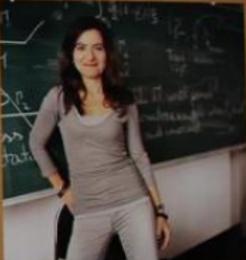
KATRIN WISNIEWSKI

Handwritten mathematical equations and diagrams on a chalkboard background.



Alice Fialowski (Pécs): functional analysis, Lie theory...

THE EXHIBITION IN GRAZ



BARBARA NELLI

1980
Lecturer in Mathematics at the University of Graz
2011 - 2012
2013 - 2014

$$d \log \left(\frac{\sqrt{a}}{\sqrt{b} + \sqrt{a^2 + b^2}} \right) = \frac{1}{x}$$

Exhibition poster for Barbara Nelli, a mathematician. The poster features a photograph of her in a grey long-sleeved top and light-colored pants, standing in front of a chalkboard filled with mathematical equations. The text below the photo includes her name, birth year (1980), and her role as a lecturer in Mathematics at the University of Graz from 2011-2012 and 2013-2014. A prominent mathematical formula is displayed:
$$d \log \left(\frac{\sqrt{a}}{\sqrt{b} + \sqrt{a^2 + b^2}} \right) = \frac{1}{x}$$
. At the bottom of the poster, there is a small strip of images showing her in various settings.



KATARZYNA INASJAKI REJZNER

1980
Lecturer in Mathematics at the University of Graz
2011 - 2012
2013 - 2014

o-uraj, pizuraj-i-e-uraj

Exhibition poster for Katarzyna Inasjaki Rejzner, a mathematician. The poster features a photograph of her in a red top and black skirt, standing in front of a chalkboard. The text below the photo includes her name, birth year (1980), and her role as a lecturer in Mathematics at the University of Graz from 2011-2012 and 2013-2014. The text "o-uraj, pizuraj-i-e-uraj" is written in a stylized font. At the bottom of the poster, there is a small strip of images showing her in various settings.



KAIISA MATOMÄKI

1980
Lecturer in Mathematics at the University of Graz
2011 - 2012
2013 - 2014

$$S(n) \sim \frac{1}{2} n^2$$

Exhibition poster for Kaisa Matomäki, a mathematician. The poster features a photograph of her in a red top and black skirt, standing in front of a chalkboard. The text below the photo includes her name, birth year (1980), and her role as a lecturer in Mathematics at the University of Graz from 2011-2012 and 2013-2014. A mathematical formula is displayed:
$$S(n) \sim \frac{1}{2} n^2$$
. At the bottom of the poster, there is a small strip of images showing her in various settings.



ALICE PALISIEWICZ

1980
Lecturer in Mathematics at the University of Graz
2011 - 2012
2013 - 2014

2 + 2 = 4

Exhibition poster for Alice Palisiewicz, a mathematician. The poster features a photograph of her in a white top and plaid skirt, standing in front of a chalkboard. The text below the photo includes her name, birth year (1980), and her role as a lecturer in Mathematics at the University of Graz from 2011-2012 and 2013-2014. The text "2 + 2 = 4" is written in a stylized font. At the bottom of the poster, there is a small strip of images showing her in various settings.



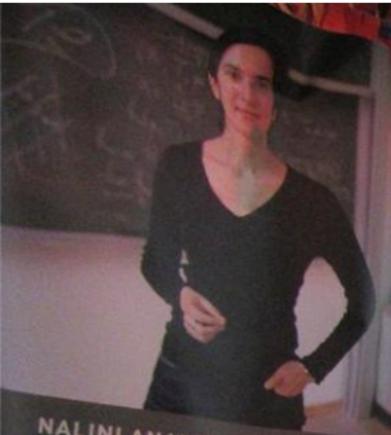
Katrin Wendland (Freiburg): geometry and quantum field theory.



“The many different aspects of mathematics make it a very appealing subject.”

Katrin Wendland

THE EXHIBITION IN M'BOUR

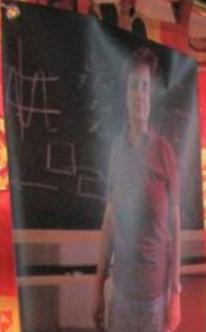


NALINI ANANTHARAMAN

COUNTRY: France
AFFILIATION: University of Strasbourg, France
FIELD OF RESEARCH: Mathematical aspects, semi-classical analysis, mathematical physics, quantum theory, and quantum

$$h_{\text{KS}}(\mu) \leq \int_{\Sigma} N_{\text{KS}}(\omega, \mu)$$

On the left hand side, $h_{\text{KS}}(\mu)$ is the Kolmogorov-Sinai entropy of the flow ϕ_t on the space (Σ, μ) . On the right hand side, $N_{\text{KS}}(\omega, \mu)$ is the number of periodic orbits of length n in the space (Σ, μ) . This inequality is a generalization of the famous result of Yuzvinsky and Yuzvinsky (1982) for the case of a single periodic orbit.



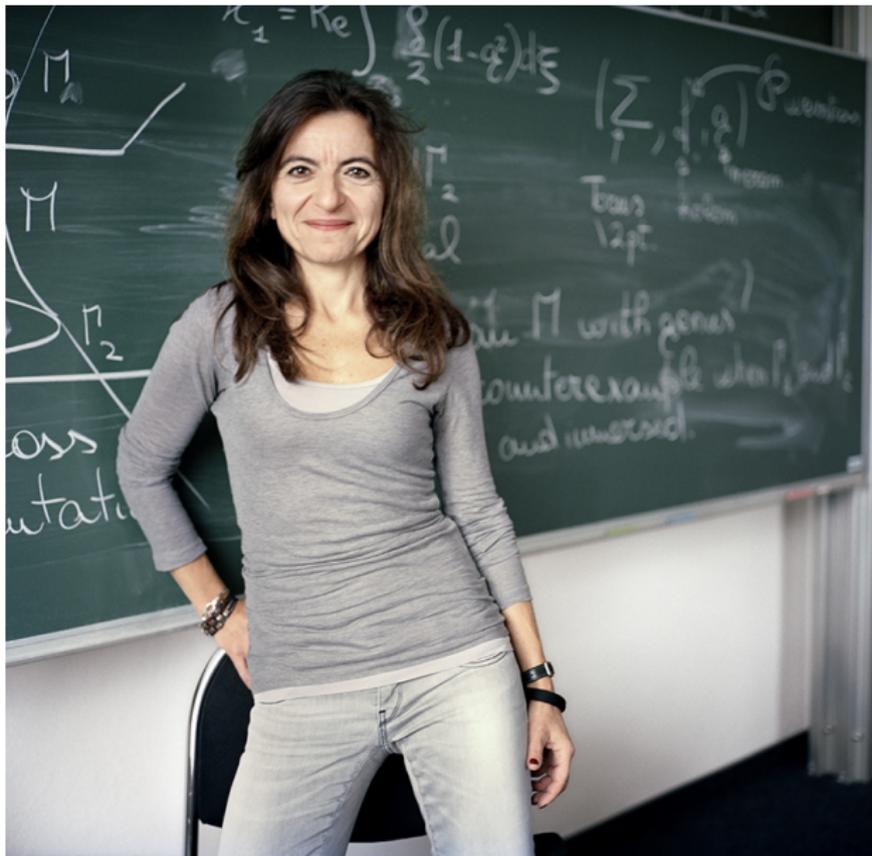
DUŠANKA PERIŠIĆ

COUNTRY: Serbia
AFFILIATION: University of Belgrade, Serbia
FIELD OF RESEARCH: Mathematical physics, quantum theory, and quantum

$$h_{\text{KS}}(\mu) \leq \int_{\Sigma} N_{\text{KS}}(\omega, \mu)$$

On the left hand side, $h_{\text{KS}}(\mu)$ is the Kolmogorov-Sinai entropy of the flow ϕ_t on the space (Σ, μ) . On the right hand side, $N_{\text{KS}}(\omega, \mu)$ is the number of periodic orbits of length n in the space (Σ, μ) . This inequality is a generalization of the famous result of Yuzvinsky and Yuzvinsky (1982) for the case of a single periodic orbit.

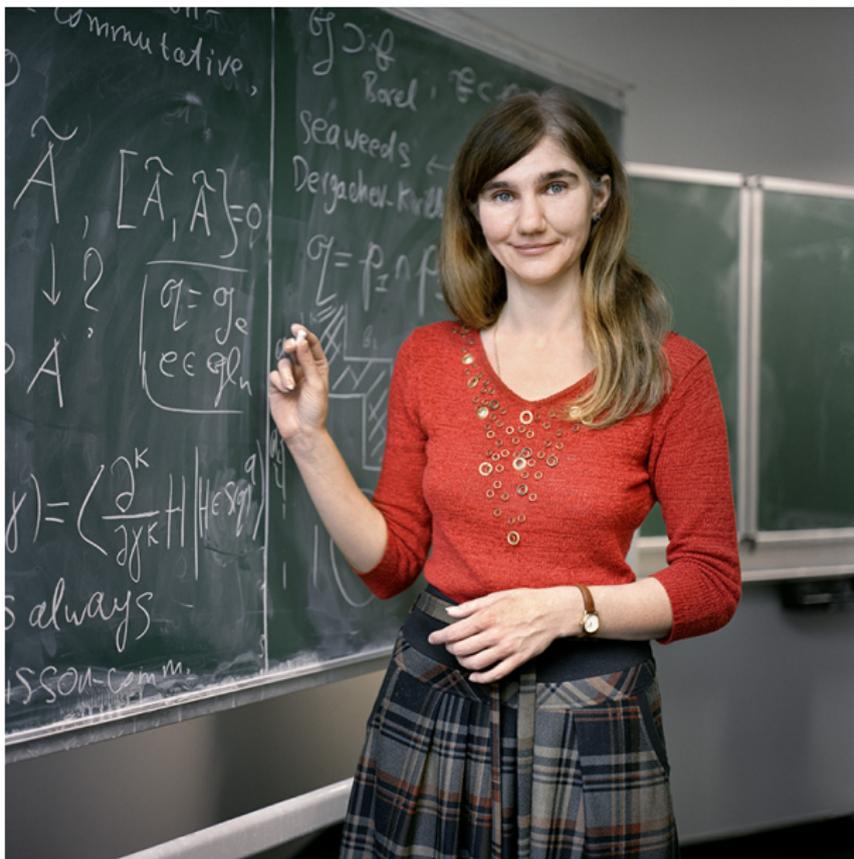




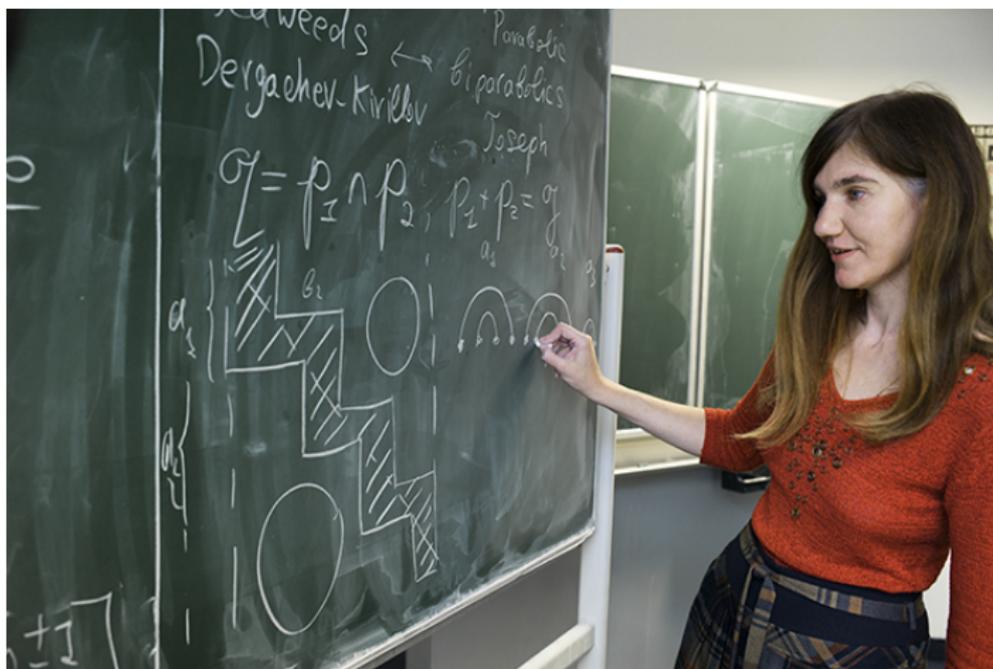
Barbara Nelli (L'Aquila): geometric analysis, minimal surfaces...



THE EXHIBITION IN GENEVA



Oksana Yakimova (Jena): algebraic groups and Lie algebras, Poisson structures...



“At my first school [...] a female teacher spotted me and was pleased when I answered her questions.”

Oksana Yakimova

THE EXHIBITION IN GÖTEBORG





Kaisa Matomäki (Turku): number theory.



“I had a lot of time to think about mathematics when I was on maternity leave for my first child.”

Kaisa Matomäki



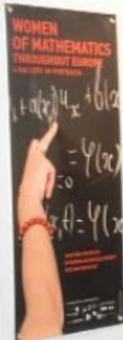
Stefka Bouyuklieva (Veliko Tarnovo): combinatorics, coding theory...



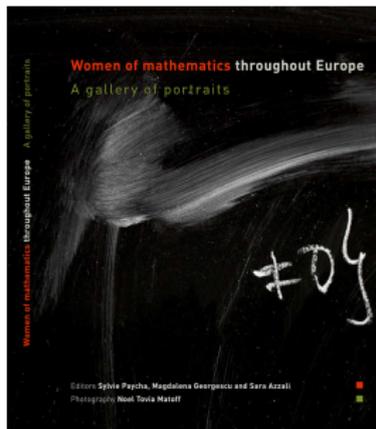
"I feel happy solving a mathematical problem in the same way as my mother very much enjoys solving Sudoku games."

Stefka Bouyuklieva

THE EXHIBITION IN QUITO



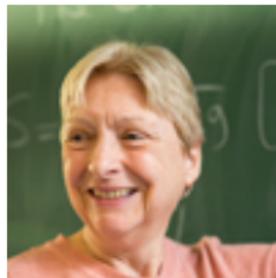
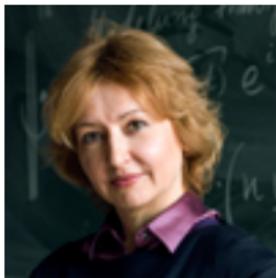
To know more: the catalogue



Pictures: Noël Matoff,
Interviews: Sylvie Paycha, Sara Azzali.

Extensions of the exhibitions:

In Cambridge:



In Kaiserslautern:



Ongoing projects:

- ▶ **Women of mathematics along the Mediterranean shores**, including portraits of Sofia Labropoulou (Greece) and Marta Sanz Solé (Spain).
- ▶ **Women of mathematics in Australia**, including portraits of Rowena Ball, Asilata Bapat, Joan Lisaca, Cheryl Praeger , Jacqui Ramagge and Katherine Turner.