

Prof. dr. Mirela Kohr

Project director of the following research grants:

1. CNCSIS Grant of type AT (2001-2002), CNCSIS code **190/2001**, CNCSIS code **7/2002**: **Mathematical Methods in Viscous Fluid Mechanics and Celestial Mechanics/Metode Matematice în Mecanica Fluidelor Vâscoase și Mecanica Cerească**.
2. CNCSIS Grant of type A code **336** (2004-2006): **Mathematical Models in Viscous Fluid Mechanics, Theory of Heat Transfer and Celestial Mechanics. Applications/Modele Matematice în Mecanica Fluidelor Vâscoase, Teoria Transferului de Căldură și Mecanica Cerească. Aplicații**.

Host institution of the project: Babeș-Bolyai University.

Research team:

1. Kohr Mirela, Faculty of Mathematics and Computer Science, Babeș-Bolyai University (Director)
2. Bărbosu Mihail, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
3. Groșan Teodor Silviu, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
4. Pintea Cornel Sebastian, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
5. Trîmbițaș Radu-Tiberiu, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
6. Păcurar Mădalina, Faculty of Economics and Business Administration, Babeș-Bolyai University
7. Revnic Cornelia (member as PhD student), Faculty of Mathematics and Computer Science, Babeș-Bolyai University.

3. CNCSIS Grant of type A code **1470** (2007-2008): **Modern Problems of Flow and Heat Transfer in Viscous Fluids and Porous Media. Applications/Probleme Moderne de Mișcare și Transfer de Căldură în Fluide Vâscoase și Mediile Poroase. Aplicații**.

Director: Professor Mirela Kohr, Faculty of Mathematics and Computer Science, Babeș-Bolyai University, Cluj-Napoca

Host institution of the project: Babeș-Bolyai University.

Research team:

1. Kohr Mirela, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
2. Groșan Teodor Silviu, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
3. Bulboacă Teodor, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
4. Pintea Cornel Sebastian, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
5. Trîmbițaș Radu-Tiberiu, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
6. Filip Diana-Andrade, Faculty of Economics and Business Administration, Babeș-Bolyai University
7. Păcurar Mădalina, Faculty of Economics and Business Administration, Babeș-Bolyai University
8. Szabó Tunde Petra, Faculty of Economics and Business Administration, Babeș-Bolyai University
9. Revnic Cornelia (member as PhD student), Doctoral School of Mathematics and Computer Science, Babeș-Bolyai University
10. Bagdasar Ovidiu (member as PhD student), Doctoral School of Mathematics and Computer Science, Babeș-Bolyai University.

4. UEFISCSU-CNCSIS Grant PN-II-ID code **525** (2007-2010): **The Study of some Viscous Fluid Flows in Porous Media with Applications in Biology and Medicine/Studiul unor Mișcări Fluide Vâscoase în Mediile Poroase cu Aplicații în Biologie și Medicină**.

Director: Professor Kohr Mirela, Faculty of Mathematics and Computer Science, Babeș-Bolyai University, Cluj-Napoca

Host institution of the project: Babeș-Bolyai University.

Research team:

1. Kohr Mirela, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
2. Kohr Gabriela, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
3. Groșan Teodor Silviu, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
4. Ului Elena-Maria, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
5. Revnic Cornelia (member as PhD student), Faculty of Mathematics and Computer Science, Babeș-Bolyai University

5. CNCS - UEFISCDI Grant PN-II-ID-PCE-2011-3-0994 (2011-2016): **Boundary Value problems for Elliptic Systems on Non-Smooth Domains with Applications in Fluid Mechanics/Probleme cu Valori pe Frontieră pentru Sisteme Eliptice pe Domenii Nenete de cu Aplicații în Mecanica Fluidelor.**

Director: Professor Kohr Mirela, Faculty of Mathematics and Computer Science, Babeș-Bolyai University, Cluj-Napoca

Host institution of the project: Babeș-Bolyai University.

Research team:

1. Kohr Mirela, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
2. Groșan Teodor Silviu, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
3. Pintea Cornel Sebastian, Faculty of Mathematics and Computer Science, Babeș-Bolyai University
4. Păpară Nicolae-Valentin (member as PhD student), Faculty of Mathematics and Computer Science, Babeș-Bolyai University
5. Fericean Denisa-Gabriela (member as PhD student), Faculty of Mathematics and Computer Science, Babeș-Bolyai University.

<https://www.math.ubbcluj.ro/~mkohr/>

6. GSCE-30259/22.01.2015 Grant for scientific excellence (2015), Babeș-Bolyai University: **Analysis of some nonlinear boundary value problems. A potential theory approach/Analiza unor probleme neliniare cu valori pe frontieră. O abordare din perspectiva teoriei potențialului.**

Member of the following research grants (selective list)

1. Grant tip A cod CNCSIS 1472 (2007-2008): **PROBLEME MODERNE ÎN TEORIA FUNCȚIILOR UNIVALENTE DE UNA ȘI MAI MULTE VARIABILE COMPLEXE. APlicații.**
Director: Prof. dr. Gabriela Kohr, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai
2. Grant CNCSIS PN-II-ID cod 524 (2007-2010): **LANȚURI LOEWNER ȘI SUBORDONĂRI DIFERENȚIALE PENTRU FUNCȚII DE UNA ȘI MAI MULTE VARIABILE COMPLEXE. EXTINDERI CVASICONFORME ȘI APlicații ÎN MECANICA FLUIDELOR.**
Director: Prof. dr. Gabriela Kohr, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai
3. Grant PN-II-ID-PCE-2011-3-0899 (2011-2016): **Geometric and analytic aspects of biholomorphic mappings in C^n and complex Banach spaces.** Director: **Prof. dr. Gabriela Kohr**, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai
4. Grant PN-III-P4-PCE-2021-0993, cod PCE 69/2022 (2023-2025). Director de grant: Prof. dr. Teodor Groșan, Facultatea de Matematică și Informatică, Universitatea Babeș-Bolyai.

International Projects

- **Annual research visits (visiting professor) to the University of Toronto, Department of Mathematics, supported by the research grant: Natural Sciences and Engineering Research Council of Canada grant A9221, Director Professor Ian Graham, 1999-2008; 2009-2019 (partial support).**
- **Visiting Researcher within the grant EP/M013545/1 (2015-2018): Mathematical Analysis of Boundary-Domain Integral Equations for Nonlinear PDEs, EPSRC grant, UK. Director Professor Sergey E. Mikhailov, Brunel University London (UK).**
- **Research project with Prof. Victor Nistor, Université de Lorraine, Institut Élie Cartan de Lorraine, Metz: Integral operators in solid and fluid mechanics, founded by Université de Lorraine, France, 2024.**