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 şi 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 şi Mecanica Cerească. Aplicaţii**.
    Host institution of the project: **Babeş-Bolyai University**.
    Research team:
    1. Kohr Mirela, Faculty of Mathematics and Computer Science, Babeş-Bolyai University (Director)
    2. Bărbosu Mihail, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    3. Groşan Teodor Silviu, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    4. Pintea Cornel Sebastian, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    5. Trîmbiţaş Radu-Tiberiu, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    6. Păcurar Mădalina, Faculty of Economics and Bussiness Administration, Babeş-Bolyai University
    7. Revnic Cornelia (member as PhD student), Faculty of Mathematics and Computer Science, Babeş-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 Mişcare şi Transfer de Căldură în Fluide Vâscoase şi Medii Poroase. Aplicaţii**.
    Director: Professor Mirela Kohr, Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca
    Host institution of the project: **Babeş-Bolyai University**.
    Research team:
    1. Kohr Mirela, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    2. Groşan Teodor Silviu, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    3. Bulboacă Teodor, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    4. Pintea Cornel Sebastian, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    5. Trîmbiţaş Radu-Tiberiu, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    6. Filip Diana-Andrada, Faculty of Economics and Bussiness Administration, Babeş-Bolyai University
    7. Păcurar Mădalina, Faculty of Economics and Bussiness Administration, Babeş-Bolyai University
    8. Szabó Tunde Petra, Faculty of Economics and Bussiness Administration, Babeş-Bolyai University
    9. Revnic Cornelia (member as PhD student), Doctoral School of Mathematics and Computer Science, Babeş-Bolyai University
    10. Bagdasar Ovidiu (member as PhD student), Doctoral School of Mathematics and Computer Science, Babeş-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 Mişcări Fluide Vâscoase în Medii Poroase cu Aplicaţii în Biologie şi Medicină**.
    Director: Professor Kohr Mirela, Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca
    Host institution of the project: **Babeş-Bolyai University**.
    Research team:
    1. Kohr Mirela, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    2. Kohr Gabriela, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
    3. Groşan Teodor Silviu, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
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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 Elipticepe Domenii Nenetede cu Aplicaţii în Mecanica Fluidelor**.

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

    Host institution of the project: **Babeş-Bolyai University**.

    Research team:
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3. Pintea Cornel Sebastian, Faculty of Mathematics and Computer Science, Babeş-Bolyai University
4. Păpară Nicolae-Valentin (member as PhD student), Faculty of Mathematics and Computer Science, Babeş-Bolyai University
5. Fericean Denisa-Gabriela (member as PhD student), Faculty of Mathematics and Computer Science, Babeş-Bolyai University.

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6. GSCE-30259/22.01.2015 Grant for scientific excellence (2015), Babeş-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 potenţialului.

Member of the following research grants (selective list)

1. Grant tip A code CNCSIS **1472** (2007-2008): **Modern Problems in the Theory of Univalent Functions of One and Several Complex Variables. Applications / Probleme Moderne în Teoria Funcţiilor Univalente de Una şi mai Multe Variabile Complexe. Aplicaţii.** Director: **Prof. dr. Gabriela Kohr**, Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca

2. Grant CNCSIS PN-II-ID code **524** (2007-2010): **Loewner Chains and Differential Subordinations for Functions of One and Several Complex Variables. Quasiconformal Extensions and Applications in Fluid Mechanics /Lanţuri Loewner şi Subordonări Diferenţiale pentru Funcţii de Una şi mai Multe Variabile Complexe. Extinderi Cvasiconforme şi Aplicaţii în Mecanica Fluidelor.** Director: **Prof. dr. Gabriela Kohr**, Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca

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**, Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca

4. Grant PN-III-P4-PCE-2021-0993, cod PCE 69/2022 (2023-2025). Director: Prof. dr. Teodor Groşan, Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca.

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*, **funded by Université de Lorraine, France, 2024.**