## Application for Admission to the Doctoral School "Dissipation and Dispersion in Nonlinear Partial Differential Equations" and Application to the Special Research Program "Taming Complexity in Partial Differential Systems"

Please fill out and send to manuela.khaladj@tuwien.ac.at

| Biographical Information   |
|--|
| Last Name: First Name:   |
| Date of Birth (Day-Month-Year):City, State of Birth:                           |
| Citizenship: Marital Status: Married Single Gender: Female Male                |
| Permanent Address:   |
| Country:   |
| E-mail:  |
| Academic Information:  |
| Indicate the highest level of education you have earned: Bachelor Master Ph.D. |
| Master Degree or Equivalentin ProgressComplete                                 |
| Name of Degree:  |
| College / University Name:   |
| City / Country:  |
| Starting Date (Month-Year): Completion Date (Month-Year):                      |
| Years Attended: Grade:   |
| Additional Education in Progress Complete                                      |
| Name of Degree:  |
| College / University Name:   |
| Address:   |
| Starting Date (Month-Year): Completion Date (Month-Year):                      |
| Years Attended: Grade:   |
| Additional Education in Progress Complete                                      |
| Name of Degree:  |
| College / University Name:   |
| Address:   |
| Starting Date (Month-Year): Completion Date (Month-Year):                      |
| Years Attended: Grade:   |
|  |

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| Academic Honors                       | and Awards:   |                                  |  |
|---------------------------------------|---|----------------------------------|--|
|                                       |   |                                  |  |
|                                       |   |                                  |  |
| Notive and Far                        | roign Longuago Info                                     | rmation                          |  |
| Native and Foi                        | reign Language Info                                     | rmation:                         |  |
|                                       | our native language:<br>cy, range of an educated native | user of the language             |  |
| Moderate = Able to read               | d non-technical materials and te                        | chnical writing in one's field a | and carry on an exchange of ideas<br>as a means of exchanging ideas. |
| Language 1:                           |   |                                  |  |
|                                       | Speaking Ability High                                   | Reading Ability High             | Writing Ability High   |
|                                       | Moderate  | Moderate                         | Moderate   |
|                                       | Low   | Low                              | Low  |
| Language 2:                           |   |                                  |  |
|                                       | Speaking Ability High                                   | Reading Ability High             | <b>Writing Ability</b><br>☐ High                                     |
|                                       | Moderate  | Moderate                         | Moderate   |
|                                       | Low   | Low                              | Low  |
| Language 3:                           |   |                                  |  |
|                                       | Speaking Ability<br>☐ High                              | Reading Ability High             | <b>Writing Ability</b><br>☐ High                                     |
|                                       | Moderate  | Moderate                         | Moderate   |
|                                       | Low   | Low                              | Low  |
| Other Languages:                      | L   |                                  |  |
| Title of Master                       |   |                                  |  |
| You may attach a re                   | esume with more details if                              | needed.                          |  |
|                                       |   |                                  |  |
|                                       | La la Paragra de la casa de la                          |                                  | 1-1 - \  |
|                                       | t publications or origonations with more details if     |                                  | cable)   |
| · · · · · · · · · · · · · · · · · · · |   |                                  |  |
| 1                                     |   |                                  |  |
| 2                                     |   |                                  |  |
|                                       | experience (if applications with more details.          | cable)                           |  |
| 1. Employer:                          |   |                                  | Start Date:  |
|                                       |   |                                  |  |
| P05iti0II:                            |   |                                  | End Date:  |
| 2. Employer:                          |   |                                  | Start Date:  |
| Position:                             |   |                                  | End Date:  |

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|                     | search Interests cate your preferences for the research projects of the doctoral program*.                          |  |  |  |
|---------------------|---|--|--|--|
| П                   | Degenerate Fokker-Planck equations and reversed logarithmic Sobolev inequalities (Arnold, DK)                       |  |  |  |
| H                   | Model-risk in finance - a transport viewpoint (Beiglböck, DK)   |  |  |  |
| П                   | Macroscopic models for spintronics (Jüngel, DK)   |  |  |  |
| $\overline{\sqcap}$ | Geometry of generalized transport metrics (Maas, DK)  |  |  |  |
|                     | Nonlinear Schrödinger equations (Mauser, DK)  |  |  |  |
|                     | Numerical methods for wave equations (Melenk, DK)   |  |  |  |
|                     | Model order reduction for frequency response problems (Perugia, DK)   |  |  |  |
|                     | Effective numerical methods for time-dependent micro-magnetics (Praetorius, DK)                                     |  |  |  |
|                     | Hypocoercivity and chemical reactions in kinetic transport (Schmeiser, DK)  |  |  |  |
|                     | Pressure robust discretization methods for Navier-Stokes equations (Schöberl, DK)                                   |  |  |  |
|                     | Elliptic regularization of nonlinear evolution equations (Stefanelli, DK)   |  |  |  |
|                     | Long-time asymptotics for integrable wave equations (Teschl, DK)  |  |  |  |
|                     | Large-time behavior of continuous dissipative systems (Arnold, SFB)   |  |  |  |
|                     | Large-time behavior of discrete dissipative systems (Jüngel, SFB)   |  |  |  |
|                     | Structure preserving variational discretisation via optimal transport (Maas,SFB)                                    |  |  |  |
|                     | PDE models for transportation networks (Markowich, SFB)   |  |  |  |
|                     | Time dependent (magnetic) Schrödinger equations (Mauser, SFB)   |  |  |  |
|                     | High order numerical methods for nonlocal operators (Melenk, SFB)   |  |  |  |
|                     | Problem adapted discretisations of wave equations (Perugia, SFB)  |  |  |  |
|                     | Coupling in computational micromagnetics (Praetorius, SFB)  |  |  |  |
|                     | Large-time and macroscopic asymptotics in kinetic transport (Schmeiser, SFB)  |  |  |  |
|                     | Automated discretization in multiphysics (Schöberl, SFB)  |  |  |  |
| Ш                   | Multiphysics effects in solids (Stefanelli, SFB)  |  |  |  |
|                     |   |  |  |  |
| Pref                | ferences & Additional Information   |  |  |  |
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|                     |   |  |  |  |
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| _                   |   |  |  |  |
|                     | I certify that the information provided on this application is, to the best of my knowledge, complete and accurate. |  |  |  |

<sup>\*</sup> DK = Doctoral School, SFB = Special Research Program