

In the proposed research project the scientific collaboration of three leading Central European groups (from University of Wuppertal, University of Vienna and the Jagiellonian University in Krakow) working in Complex Analysis is planned. Though there have been some contacts between the groups there have not been common scientific publications yet. The planned research proposal should contribute to change it and an effect of synergy through the combination of mutually complementing abilities and know-how in different areas not only of complex analysis but also in PDE, geometry and the pluripotential theory should be obtained. To be more specific the potential area of the research collaboration should contain: holomorphically invariant functions (for instance Bergman kernel and metric), Lempert Theorem, pluripotential theory, Monge-Ampere equation, properties of plurisubharmonic functions, uniformization problem and Bergman and Kobayashi hyperbolicity of special domains.