

Scientific Report for ESF - MISGAM Short Visit Grant

Title of project: Supersymmetric matrix models

Dates of visit: 13/03/2009 – 22/03/2009

Host: Professor Giovanni Felder, ETH Zürich, Switzerland

Purpose and results of the visit:

As intended, the short visit grant enabled me to continue work on my thesis on the subject of supersymmetric matrix models, and to discuss and collaborate with my advisor Jens Hoppe (who is guest professor at ETH during the spring), the host Giovanni Felder, and with Gian Michele Graf, Jürg Fröhlich, and Arthur Jaffe. I also gave a talk at the Institute of Theoretical Physics on recent progress concerning zero energy states in supersymmetric matrix models. I will return to ETH in May for continued discussions and collaborations.

Projected articles to result from the grant:

A first result is the completion of a paper with the preliminary title “Weighted Supermembrane Toy Model”.