Report on ESF grant 3590

The purpose of the visit was to continue the joint project with Prof. Cieliebak on stable Hamiltonian structures. During the stay 29.06.2010—02.07.2010 we worked on the statement that any stable Hamiltonian structure in dimension 3 can be homotoped to a one supported by an open book. The main result was that we prepared a strategy of the proof based on our previous results (see arXiv:1003.5084v1 [math.SG]) and some ideas from conact topology of transverse knots. Detais of the proof are still to be completed. A talk at the departmental seminar describing the current state of art was given. In the near future we plan to fill in the details of the proof and include the statement as a part of the second version of our preprint arXiv:1003.5084v1 [math.SG]. The main results of the preprint should then constitute a paper that we plan to submit to a journal. The final steps of the preparation of the paper will be carried out after the proof of the above statement is completed.