

Vincenzo Dimonte's Scientific Report for an ESF Short Visit Grant

May 7, 2012

1 Purpose of the Visit

Participation at the Young Set Theory Workshop, 2012 in Luminy, from 30th April to 4th May. The aim of the visit was threefold: attending tutorials from prominent senior researchers, participating in discussion sessions with fellow colleagues and following talks by Post-Doc students.

2 Description of Work Carried Out During the Visit

The work has been carried out exactly as planned in the purpose of the visit. I followed with particular interest Prof. Itay Neeman's tutorial on Forcing Iterations with finite side conditions. I attended all Post-Doc researchers seminars and I participated in the afternoon discussions. It is noteworthy that I had the possibility to talk with a student of Woodin, and to discuss with him the up-to-date state of very large cardinal hypotheses, including I_0 , my main field of research. More generally, I had the possibility for the whole week to talk with colleagues about a wide range of topics related to set theory (more practical matters included, like the job possibilities in other countries).

3 Description of the Main Results Obtained

My formation has benefited greatly from this visit. I feel that my comprehension (at least at an intuitive level) of several subjects is improved, and I gathered ideas for my future work. For example, I learned of a recent improvement of a Generic Absoluteness Theorem by Woodin that I expect to

improve also my more recent results, and I acquired new information about inverse limit ordinals, that I believe will lead to new research.

4 Projected Publications/Articles Resulting from the Grant

There cannot be a publication/article that fully result from the grant. However, this experience will be a solid base for future developments.