Purpose of the visit:
Funded by the grant, I visited Vienna, from June 14 - June 21, 2009, where I attended the first week of the ESI Workshop in Large Cardinals and Descriptive Set Theory.

Description of work carried out:
I attended conference talks, and discussed some research questions with others at the conference. I also gave a talk on some of my work. The main issue I was working on was understanding the extent of the homogeneously Suslin sets in the minimal models of 1, and 2, Woodin cardinals.

Description of results of the work:
Although some interesting ideas were identified, unfortunately no definitive results were obtained. A seemingly promising idea that arose during the visit is to analyse the closure (or otherwise) of the homogeneously Suslin sets in $M_n$ under the universal real quantifier. Such closure is equivalent to the identification of the homogeneously Suslin sets with $\Pi^1_1$ in $M_1$, or with $\Pi^1_2$ in $M_2$. The question of whether such closure holds in $V$ appears to be open also. A variation of this idea also arose: Suppose that in $M_1$, $A(x, y)$ is homogeneously Suslin. Can one always define (in $M_1$) an absolute tree representation of the set of reals $x$ such that for all $y$, $A(x, y)$? (That is, the tree should project to the interpretation of this set in $V$, or at least over all reals which are in a generic extension of $M_1$ via its extender algebra.) If so, then all homogeneously Suslin sets are $\Pi^1_1$ in $M_1$. A similar construction might work in $M_2$. Also, in these questions, it suffices to reduce to dealing with a homogeneously Suslin, co-homogeneously Suslin set. Resolutions of these questions could lead to interesting results.