Università
degli Studi
della Campania
Luigi Vanvitelli

Dipartimento di
Matematica e Fisica

SEMINAR ANNOUNCEMENT

On Friday 18th March, at 5:00 pm, Dr Mariana Vicaria of the University of California at Berkeley will give, online, a Logic Seminar entitled

Elimination of imaginaries in ordered abelian groups of bounded regular rank

Abstract: In this talk I will present some results about elimination of imaginaries in pure ordered abelian groups. For the class of ordered abelian groups with bounded regular rank (equivalently with finite spines) we obtain weak elimination of imaginaries once we add sorts for the quotient groups Γ/ Δ for each definable convex subgroup Δ, and sorts for the quotient groups $\Gamma/(\Delta+ \ell\Gamma)$ where Δ is a definable convex subgroup and $\ell \in \mathbb{N}_{\geq 2}$. We refer to these sorts as the *quotient sorts*. For the dp-minimal case we obtain a complete elimination of imaginaries if we also add constants to distinguish the cosets of $\Delta+\ell\Gamma$ in Γ, where Δ is a definable convex subgroup and $\ell \in \mathbb{N}_{\geq 2}$. If there is time I will introduce ideas on how these results are relevant to eliminate imaginaries in henselian valued fields of equicharacteristic zero with more general value groups.

Anyone who would like to attend should send an email to:
lornaanne.gregory@unicampania.it

The proposer

Lorna Gregory