▶ CHRISTOPHER SHAW, *Ordered structures, o-minimality, and definable choice.*
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Given that any o-minimal densely ordered group has full definable choice (namely, definable Skolem functions and uniform elimination of imaginaries), it is a natural question to ask whether this can be achieved in the weakly o-minimal setting. We examine the case of a structure $\mathcal{N}$ obtained by adding a new convex predicate to an o-minimal structure $\mathcal{M}$. If the new predicate is interpreted by a bounded convex set with endpoints outside of $\mathcal{M}$, then the resulting structure is properly weakly o-minimal and has a weakly o-minimal theory. We show that in this case, definable Skolem functions are present precisely when $\mathcal{N}$ has a definable subgroup. Together with a simple application of compactness, this yields the result that no such structure may have full definable choice.