

- ▶ CHRISTOPHER SHAW, *Definable choice for a class of weakly o-minimal structures*.
Department of Science & Mathematics, Columbia College, 600 S. Michigan Ave.,
Chicago, IL 60605, USA.
E-mail: cshaw@colum.edu.

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{M}' obtained by adding a new convex predicate to an o-minimal structure \mathcal{M} . If the new predicate is interpreted by a convex set bounded on at least one side with an endpoint outside of M , then the resulting structure is properly weakly o-minimal and has a weakly o-minimal theory. In this case, modulo some definable elements, \mathcal{M}' has definable Skolem functions present precisely when \mathcal{M}' is valational.