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Jared Holshouser* (jaredholshouser@my.unt.edu), 1030 Dallas Drive, #1022, Denton, TX 76205. *Partition Properties for Non-Ordinal Sets Under the Axiom of Determinacy*. Preliminary report.

It is well established that the axiom of determinacy imbues normal cardinals with large cardinal properties. Recently it was shown that, in $L(\mathbb{R})$, all cardinals below Θ are Jonsson and other cardinals are Rowbottom (weak Ramsey properties). It remained open, however, whether any non-ordinal sets are Jonsson. We have answered this question in the affirmative. For the fragment of $L_\Theta(\mathbb{R})$ which is generated by cardinals and hyperfinite quotients of \mathbb{R} using finite unions and products, we have characterized when the Ramsey, Rowbottom, and Jónsson properties occur. (Received September 19, 2016)