

- ▶ DAISUKE IKEGAMI, *On supercompactness of ω_1* .
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In ZFC, all the large cardinals are much bigger than ω_1 , the least uncountable cardinal. In ZF without assuming the Axiom of Choice, ω_1 could have large cardinal properties such as measurability and supercompactness by the results of Jech and Takeuti. In this talk, we discuss some consequences of supercompactness of ω_1 on sets of reals in terms of regularity properties and determinacy. This is joint work with Nam Trang.