

# Michigan Math Club

Thursday at 4pm in the Commons  
Free Pizza and Pop



## The smallest uncountable ordinal and other tales

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Abstract for 18 September



No matter how long you keep looking at me from the left, I keep increasing, but my size is still the same. One look from the right and you see I'm actually way bigger. And my friends can help you do induction on real numbers. What am I? This and more tales about the beautiful, the weird, and the beautifully weird, will be recounted in this overview talk about well-ordering and transfinite induction, ordinals and their arithmetic, and some distinguished ordinals, which are among the favorite *enfants terribles* of mathematical logic.