

Re: Subsets of cardinals in a well-ordering

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Much thanks for the suggestion! Although for this step

Now apply the result for regular cardinals to get a subset B_n of $A(n, g(n))$ such that $|B_n| = \aleph_n$, and $f|_{B_n}$ is order-preserving.

f isn't a permutation on $A(n, g(n))$ – in fact $A(n, g(n))$ is a subset of \aleph_n but the image of f in that set is $\aleph_{g(n)}$. So it looks like you need to prove a slightly stronger statement for the regulars (although that's pretty easy)

Anyway very clever. What was your intuition?

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