

## Re: Closed set with Cantor–Bendixson Rank $\omega$

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**From:** Mike Oliver (*mike\_lists\_at\_verizon.net*)

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poopdeville@gmail.com wrote:

- > *Does anyone know of an example of a closed set in a Polish space with*
- > *Cantor–Bendixson rank  $\omega$ ?*

Just working it out on the back of my eyeballs, I think you could just take a set of rationals (considered as a subset of the reals) having order–type  $\omega^\omega$ . Haven't checked it carefully.