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**Antonio Montalban\*** ([antonio@math.uchicago.edu](mailto:antonio@math.uchicago.edu)), 5734 S University ave., Eckhart Hall -  
University of Chicago, Chicago, IL 60657. *The non-hyperarithmic degrees form a spectrum.*

We prove that there is a structure, that can be taken to be a linear ordering, such that a set can compute a presentation of it if and only if the set is not hyperarithmic.

This is joint work with Noam Greenberg and Ted Slaman. (Received August 29, 2010)