

LETTERS to the EDITOR

The following letter, by Professor Frederick Bagemihl, is in response to a paper by Freiling and Simms which was written in response to a paper by Bagemihl which was written in response to a paper by Freiling. Please gentlemen, let this be the end of this oscillating sequence.

In their article [2], Freiling and Simms write:

In his recent article "Throwing a dart at Freilings's argument against the continuum hypothesis," F. Bagemihl claims to find a flaw in dart-throwing arguments appearing in [3]. The center of disagreement seems to be around which sets of reals are "rare" (meaning in some sense having an infinitely small chance of being hit by a random dart).

This, however, is not the "center of disagreement" at all, which Freiling and Simms apparently choose to ignore: as I stated and proved in [1], it is not the *rareness* of the set of reals that is decisive, it is *how the points of that set are distributed on the unit interval*, a matter that Freiling intentionally and explicitly excludes in [3].

References

- [1] F. Bagemihl, Throwing a dart at Freiling's argument against the continuum hypothesis, Real Analysis Exchange 15 (1989-90), 342-345.
- [2] C. Freiling and J. Simms, A three-dart response to an argument of Bagemihl, Real Analysis Exchange
- [3] C. Freiling, Axioms of symmetry: throwing darts at the real number line, The Journal of Symbolic Logic 51 (1986), 190-200.