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.

The next letter came from Professor S. G. Raphaelian and concerns the paper by Professor Kueh Ka Lam which appeared in Volume 14 Number 2.

Dear Editorial Staff,

Recently in "Referativnyi Zhurnal" (No. 12, 1989) I read the annotation of the following article: "Interpolated Fourier transforms" (Kueh-ka-Lam) Real Anal. Exch. - 1988-1989-14, No. 2. pp. 321-344, which was published in your journal. I want to inform you that the results brought in the article are particular cases of a famous theory. Still in fifties, Prof. M.M. Dzrbasian structured the generalization of the analysis of Fourier in complex domain. Afterwards he and his disciples applied that theory in various spheres of analysis, some of them are written down in the following monography: M.M. Dzrbasian, Integral Transforms and Representations of Functions in the Complex Domain, Nauka, Moscow, 1966.

I think that the author of the article mentioned above is not acquainted with that theory and in his article is repeating the already known results. I am also sending you an article, that was published recently, with corresponding list of literature.

I'd be very glad if Prof. Kueh-ka-Lam could get acquainted with my letter and the article that I am sending to you.

With best regards

Raphaelian S.G.
Professor of the Erevan University