

Prof. G.J. Chaitin
IBM Watson Research Center
P.O.Box 218
Yorktown Heights, N.Y. 10598
USA

Dear Prof. Chaitin,

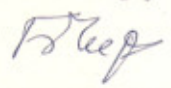
Recently I've come across your fascinating motto: 'God not only plays dice in quantum mechanics, but even with the whole numbers'. I have only a minor correction to this slogan, namely, just in quantum mechanics God's play is 'unfair'. Indeed, recent studies (including ours, see, e.g., enclosed preprint 87-123, Section 3) show that the true chaos (randomness) occurs in the classical limit only, including a special case, the quantum measurement, where the classical chaos is also possible. And, of course, fair(?) coin flipping is not really chaotic, but Sinai's billiard is, for example.

From a few of your publications I saw occasionally I understood that you contributed greatly to the problem of randomness in mathematics. So, I would appreciate very much if you could send me a copy of some your recent review with the simplest explanation of your results (for a physicist!).

With my best wishes for this New Year,

Sincerely,

21/1/88r.



Boris Chirikov