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Nelson

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Lewis & Clark College

A7047

9 August 1991

to enter $\sqrt{f_9 4}$

Dr. N. J. A. Sloane
Room 2C-376
AT&T Bell Laboratories
Murray Hill, NJ 07974

new

Dear Dr. Sloane:

I read with interest your call (*Notices of the A.M.S.*, July/August 1991) for new sequences for the second edition of your book *A Handbook of Integer Sequences*. I would like to propose the following sequence

1, 3, 11, 51, 299, 2163, 18731, 189171, 2183339, 28349043, 408990251, ... ,

which enumerates the number of chains in the power set of an n-element set (ordered by set inclusion). This sequence (and others closely related to it) are discussed in my paper with Harvey Schmidt entitled "Chains in Power Sets," which appeared in *Mathematics Magazine*, Vol. 64, No. 1, February 1991, pp. 23-31. I am enclosing a reprint.

Sincerely yours,

Roger B. Nelsen

Roger B. Nelsen
Professor

$\% N$ chains in power set of \mathbb{N} -set.

cc: H. Schmidt.

$\% R$

MMAG

64

29

91.

$\% O$

0,2

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