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SEMINAR ANNOUNCEMENT

Speaker: **Dr. D.R. Heath-Brown** *
Magdalen College
Oxford University

Title: Some problems about ± 1

Date: Friday, September 6, 1991.

Time: 10:30 hour

Venue: Rm. 207, Run Run Shaw Building

Abstract

There are many intriguing questions about multiplicative functions $f : \mathbb{N} \rightarrow \{\pm 1\}$. For example, if $f(p) = -1$ for every prime number p , so that all other values of $f(n)$ are determined, what proportion of numbers will have $f(n) = 1$? And how frequent will values of n be, for which $f(n) = f(n+1)$? These problems are connected with the prime number theorem and the twin prime problem, respectively.

***** All interested are welcome *****

* Dr. Heath-Brown is now visiting our department on the Wong Yung-Chow Visiting Lectureship in Mathematics and he will be here until 25th September, 1991