

1106-81-2153

Jingcheng Dong* (dongjc@njau.edu.cn), College of Engineering, Nanjing Agricultural University, Nanjing, Jiangsu 210031, Peoples Rep of China, and **Henry Tucker** (htucker@usc.edu), Department of Mathematics, University of Southern California, Los Angeles, CA 90089. *On integral modular categories of Frobenius-Perron dimension pq^n .*

Let p, q be distinct prime numbers. We prove that integral modular categories of Frobenius-Perron dimension pq^5 are group-theoretical. Combining this with previous results in the literature, integral modular categories of Frobenius-Perron dimension pq^i , $0 \leq i \leq 5$, are group-theoretical. We also prove a sufficient and necessary condition for integral modular categories of Frobenius-Perron dimension pq^n being group-theoretical, under the restriction that $p < q$, where n is a positive integer. (Received September 15, 2014)