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David A Jordan* (djordan@math.mit.edu), Dept. of Mathematics, MIT, 77 Massachusetts Ave, Rm 2-236, Cambridge, MA 02130, and **Eric Larson**. *Fusion categories of dimension pq^2* .

In this talk, we completely classify integral fusion categories - and consequently, semisimple Hopf algebras - of dimension pq^2 , where p and q are distinct primes. This is the simplest class of integer dimensions where non-group-theoretical categories arise; on the other hand, we prove that all semi-simple Hopf algebras of dimension pq^2 are group-theoretical. (Received September 21, 2010)