1106-18-598        **Paul Bruillard**, **César Galindo**, **Seung-Moon Hong**, **Yevgenia Kashina**, **Deepak Naidu\***
(`dnaidu@math.niu.edu`), **Sonia Natale**, **Julia Yael Plavnik** and **Eric C. Rowell**.
*Classification of integral modular categories of Frobenius-Perron dimension $pq^4$ and $p^2q^2$.*

In my talk, I will discuss the classification of integral modular categories of dimension $pq^4$ and $p^2q^2$, where $p$ and $q$ are distinct primes. I will explain why such categories, except for those of dimension $4q^2$, are always group-theoretical. I will identify the non-group-theoretical integral modular categories of dimension $4q^2$ as certain categories arising from Tambara-Yamagami categories and quantum groups. (Received September 03, 2014)