1116-VN-2763 **Reyes M Ortiz-Albino*** (reyes.ortiz@upr.edu), 1011 Sonsire Chalets, Mayaguez, PR 00682, and **Carlos Molina**. *On the number of $\tau_{(n)}$-factors.* Preliminary report.

The notion of a τ-factorization or τ-products in the general theory of (nonatomic) factorization was defined in 2006. Since, several results have been done in general, but there is been a small interest study such type of factorization when considering the set of integers as the integral domain and τ as the equivalence relation modulo n. In this talk, we will present some preliminary results about the number of τ-factors of a nonzero nonunit integer. As expected, when considering the equivalence relation modulo n and $\phi(n) \geq 4$, the problems becomes more complicated. Hence we give a flavor of what to expect when the Euler number gets bigger. Also, as a consequences we could characterize some elements that are τ-irreducible. (Received September 22, 2015)