1116-VU-1716 Mehmet Emin Aktas* (maktas@math.fsu.edu), 208 Love Building, 1017 Academic Way, Tallahassee, FL 32306. Classification of Dessins D'Enfants of the Completely Reducible Trigonal Curves.

In recent years, topology of singular plane algebraic curves has been an area of active research. Especially, there is a huge effort on the computation of the fundamental group of plane curve complements. However, there is a geometric approach, which is developed by A. Degtyarev, to the study of such plane curves with using the representation of curves via trigonal curves in Hirzebruch surfaces and Grothendieck's *dessins d'enfants*. Via dessin d'enfants, we can compute the braid monodromy of the complement of the trigonal curve C and the exceptional section E, *i.e.*, $\Sigma_1 \setminus (C \cup E)$. In this study, we work on the topology of the completely reducible trigonal curves i.e. the curves in the form $(y - p_1)(y - p_2)(y - p_3) = 0$ where $p_1, p_2, p_3 \in \mathbb{C}[x]$. We give the classification of Dessin d'enfants of these curves up to ambient isotopy for some certain degrees and work on the topology of each class. (Received September 21, 2015)