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Mehmet Emin Aktas* (maktas@math.fsu.edu), 208 Love BuildingMap 1017 Academic Way, Tallahassee, FL 32306, and **Eriko Hironaka**. *Topology of the Complement of Certain Families of Trigonal Curves and Their Associated Dessins d'Enfants*.

I am reporting an on-going work concerning the topology of the complement of trigonal curves in the form $(y - p_1)(y - p_2)(y - p_3) = 0$ where $p_1, p_2, p_3 \in \mathbb{R}[x]$ and their associated Dessins d'Enfants. We improved a method to find braid monodromies of that type trigonal curves and by using Burau representations of braid groups, we could compute the Alexander polynomial of these curve complements. Also, we tried to classify the Dessin d'enfants of these curves and are still trying to compute the Alexander like invariants, such as the Alexander polynomial, other invariants based on representations of the braid group, etc. of a these types of trigonal curves in terms of their dessins.

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