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Ozlem Ejder*, 3620 S. Vermont Avenue KAP108, Los Angeles, CA 90089. *Monodromy, Fermat Curves and Modular Symbols.*

This work is motivated by the question of computing the monodromy of a specific fibration where a generic fiber is isomorphic to Fermat curve of degree n . We use the realization of Fermat curves in terms of modular curves and compute their modular symbols and cuspidal modular symbols, and hence compute the generators of the first homology group. And finally, we describe the monodromy for this specific fibration. (Received September 09, 2016)