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**Cemile Tosun\*** ([ctosun@siu.edu](mailto:ctosun@siu.edu)), Southern Illinois University Carbondale. *Explicit Factorizations of Generalized Cyclotomic Polynomials.*

We give explicit factorizations of generalized  $a$ -cyclotomic polynomials of order  $3 \cdot 2^m$ , into a product of irreducible polynomials for any nonzero  $a$  over a finite field  $F_q$ . (Received November 22, 2012)