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Solving some cyclotomic binary forms

This is a joint work with Étienne Fouvry and Michel Waldschmidt. A cyclotomic binary form $\Phi_n(X, Y)$ is the homogenized version of the cyclotomic polynomial $\Phi_n(X)$ of degree $\phi(n)$. We look for the solutions of the Diophantine equation $\Phi_n(X, Y) = m$, where m is an integer > 0 .