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The (p, k)-calculus for quadratic forms

A simple method will be described for determining the number of representations of a positive integer n by a quadratic form $a_1 x_1^2 + \cdots + a_{2k} x_{2k}^2$, where k is a positive integer and $a_1, \ldots, a_{2k}$ are positive integers whose prime factors belong to $\{2, 3\}$. This is joint work with A. Alaca and S. Alaca.