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Counting ideals and subgroups
from noncommutative to commutative
two variables

The number of ideals of codimension n of $F_q[x, y, x^{-1}, y^{-1}]$ is a q -analogue of the number of subgroups of index n of \mathbb{Z}^2 (work with Kassel). Review of related work (Ellingsrud-Stromme, Reineke), and in particular of the noncommutative version of this result (previous work with Bacher).