1062-13-278 **Mathias Lederer*** (mlederer@math.uni-bielefeld.de). *Components of Gröbner strata in the Hilbert scheme of points.*

We fix the lexicographic order on the polynomial ring $S = k[x_1, \ldots, x_n]$ over a ring k. We define the moduli space of ideals in S admitting a reduced Gröbner bases with a given finite standard set $\delta \subset \mathbb{N}^n$ such that the corresponding subscheme of $\mathbb{A}^n_k$ is étale over $\operatorname{Spec} k$. We determine the number of irreducible and connected components of that scheme in terms of a combinatiorial invariant of δ, thus proving a conjecture by Bernd Sturmfels. (Received August 10, 2010)