William Graham* (wag@math.uga.edu) and Roger Zierau. Smooth components of Springer fibers.

We study components of Springer fibers for GL(n) that are associated to closed orbits of $GL(p) \times GL(q)$ on the flag variety of GL(n), n = p + q. These components occur in any Springer fiber. We show that, in contrast to the case for arbitrary components, these components are smooth varieties, and are invariant under a maximal torus of GL(n). This is done by using results of Barchini and Zierau to give a precise description of these components as iterated bundles. (Received August 25, 2009)