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Aaron Landesman* (aaronlandesman@college.harvard.edu) and **David Zureick-Brown**.

Smoothability of Genus 6 Petri General Curves. Preliminary report.

We introduce and study the log Petri scheme, a generalization of Schreyer and Little's Petri scheme. As an application, we prove that the Petri general locus of the Hilbert scheme of canonically embedded curves is irreducible for genus $g \leq 6$, fixing an error in a paper of Little. (Received September 04, 2015)