1131-16-50 **Jason Gaddis*** (gaddisj@maimioh.edu) and **S. Paul Smith**. *A birational equivalence between non-commutative analogs of* $\mathbb{P}^2$ *and* $\mathbb{P}^1 \times \mathbb{P}^1$. Preliminary report.

An example that appears in every introductory course on projective algebraic geometry consists of blowing up a pair of distinct points on the projective plane $\mathbb{P}^2$ then contracting the strict transform of the line through them to obtain a surface isomorphic to $\mathbb{P}^1 \times \mathbb{P}^1$. In this talk, I will present a non-commutative analog of this construction. A particularly interesting special case is related to the Lie algebra $\mathfrak{sl}_2$. (Received June 24, 2017)