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Fei Yu Chen, Hannah Hagan and **Allison Wang*** (aywang@caltech.edu). *On skew polynomial rings over locally nilpotent rings.*

In 2013, Kanwar, Leroy, and Matczuk proved that the idempotents in the Laurent polynomial ring arise from the idempotents in the ground ring. In their recent paper, Greenfeld, Smoktunowicz, and Ziemkowski asked whether a skew Laurent polynomial ring over a locally nilpotent ring may contain a non-trivial idempotent. We will show that this is not possible for skew Laurent polynomial rings in several variables. (Received September 15, 2018)