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Elden Elmanto* (eldenelmanto@gmail.com), 2033 Sheridan Road, Evanston, IL 60208, and
Marc Hoyois, Adeel Khan, Maria Yakerson and **Vladimir Sosnilo**. *Motivic Infinite Loop Spaces*.

I will describe a resolution to the problem of recognizing an infinite \mathbb{P}^1 -loop space in motivic homotopy theory. This uses an $(\infty-)$ category Corr^{fr} whose objects are smooth schemes and morphisms are spans where the left legs are finite, flat, local complete intersections equipped with a trivialization of its cotangent complex.

This is joint work with Marc Hoyois, Adeel Khan, Vladimir Sosnilo and Maria Yakerson. (Received September 08, 2017)