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Yun Shi*, 5 Cowperthwaite Street, Apt 512, Cambridge, MA 02138. *On motivic Donaldson-Thomas theory on the local projective plane.*

Donaldson-Thomas (DT) theory is an enumerative theory which counts ideal sheaves of 1-dimensional subschemes on a Calabi-Yau 3-fold. Motivic Donaldson-Thomas theory is a categorification of the DT theory. This categorification contains more refined information of the moduli space. In this talk, I will give a brief introduction to motivic DT theory. I will also discuss some results on this theory for moduli spaces of sheaves on the local projective plane. (Received January 16, 2020)