Rhea Palak Bakshi* (rhea_palak@gwu.edu) and Józef H. Przytycki. Categorification of the Kauffman Bracket Skein Module of the Projective Space and Lens Spaces.

We unify the methods used by Asaeda, Przytycki and Sikora to categorify the Kauffman bracket skein modules of twisted I bundles over surfaces and Gabrovšek’s categorification of the KBSM of the projective space. We speculate on applying a similar method for categorifying the KBSM of lens spaces. (Received September 16, 2019)