Rhea Palak Bakshi* (rhea_palak@gwu.edu), Dionne Ibarra, Józef H. Przytycki and Sujoy Mukherjee. A Generalization of the Gram determinant of type A.

The Gram determinant of type A was introduced by Lickorish in his work on invariants of 3-manifolds. We generalize the theory of the Gram determinant of type A by evaluating, in the annulus, a bilinear form of non-intersecting connections in the disc. The main result provides a closed formula for this Gram determinant. (Received August 27, 2019)