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Rebecca Goldin and **Brent Gorbutt***, bgorbutt@gmu.edu. *A positive formula for type A Peterson Schubert calculus.*

The S_1 -equivariant cohomology of a Peterson variety in type A has a $H_{S_1}^* \{pt\}$ -module basis of Peterson Schubert classes. We will present a formula for the product of two of these Peterson Schubert classes. The formula is manifestly positive and integral. We will also present a combinatorial identity we discovered while proving the formula. (Received January 17, 2020)