1142-57-207 **Jozef H. Przytycki*** (`przytyck@gwu.edu`), George Washington University, Washington, DC 20052, and **Xiao Wang**. *The second Yang-Baxter homology of the Homflypt polynomial of links.*

We consider the homology of a column unital Yang-Baxter operator. In particular, we prove that the second homology is given by the following theorem:

Let R_m be a unital Yang-Baxter operator giving Homflypt polynomial on level m, then for $k = Z[y]$:

$$H_2(R_m) = k^{1+\binom{m}{2}} \oplus \left(k/(1 - y^2) \right)^{\binom{m}{2}} \oplus \left(k/(1 - y^4) \right)^{m-1}.$$