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Jozef H. Przytycki* (przytyck@gwu.edu). *Two-(co)cycle invariants of links from column unital Yang-Baxter operators.*

We describe how to define 2-(co)cycle invariants of links from column unital (e.g. stochastic) Yang-Baxter matrix. We show how to decompose the third Reidemeister move into boundary operation

$$\partial_3 = d_3^r + d_2^\ell + d_1^r - (d_1^\ell + d_2^r + d_3^\ell)$$

Despite the fact that I made this observation in May of 2015, the 2-(co)cycle invariants from Yang-Baxter operators which are not set theoretic, are still waiting to be studied. (Received September 17, 2019)