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**Aaron Kaestner\*** ([amkaestner@northpark.edu](mailto:amkaestner@northpark.edu)), 3225 West Foster Avenue, Box 07, Chicago, IL 60625. *Parity Yang-Baxter Cocycle Invariants*. Preliminary report.

We explore extending the Yang-Baxter cocycle invariants for virtual knots by introducing cocycles from a cohomology theory associated to parity biquandle structures. Our extension is modeled on the extension constructed by Cenicerós and Nelson for virtual biquandle structures. These invariants coincide with the classical Yang-Baxter cocycle invariants for classical knots but may provide extra information about virtual knots and links. (Received August 23, 2013)