1117-57-393 **Bo-hyun Kwon*** (bortire740gmail.com), 280 East Creek bend, Athens, GA 30605. *Rectangle Condition on n-bridge presentation of knots.* Preliminary report.

In this paper, we define the rectangle condition for n-bridge presentation of knots whose definition is analogous to the definition of the rectangle condition for Heegaard splittings of 3-manifolds. We show that the satisfaction of the rectangle condition for n-bridge presentation can guarantee that the Hempel distance for the n-bridge presentation is greater than or equal to two. Especially, we find a certain condition of 6-plat presentations to be alternating 3-bridge knots by using the rectangle condition and train track argument. (Received January 18, 2016)