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Sandie Han, Ariane Masuda, Satyanand Singh and Johann Thiel*, 300 Jay St., Brooklyn, NY 11201. *The (u, v) -Calkin-Wilf Tree*. Preliminary report.

The Calkin-Wilf tree is an infinite binary tree whose vertices enumerate \mathbb{Q}^+ via a simple generation rule. This talk will focus on a generalization of the Calkin-Wilf tree involving two parameters, u and v , referred to as the (u, v) -Calkin-Wilf tree. We will show that several properties of the (u, v) -Calkin-Wilf tree can be understood through the use of continued fractions. Furthermore, we discuss extensions of several known symmetry results of the original Calkin-Wilf tree to this new setting. (Received September 16, 2014)