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Sean Cleary*, Math Dept R8133 NAC, The City College of New York, , 160 Convent Ave, New York, NY 10031, and **Alejandro Morejon**. *Tree distances under random walks on tree spaces*. Preliminary report.

The BHV metric on phylogenetic trees introduced by Billera, Holmes, and Vogtmann has a number of useful properties capturing similarities of trees. Many biological applications consider other distances such as Subtree-Prune-Regraft (SPR) and Nearest Neighbor Interchange (NNI). Here, we explore how random walks with respect to SPR and NNI distances are expected to change BHV distances. (Received January 25, 2019)