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**Sarah E Bailey\*** ([sebailey@email.unc.edu](mailto:sebailey@email.unc.edu)), Department of Mathematics, CB# 3250 Phillips Hall, University of North Carolina, Chapel Hill, NC 27599. *Non-Simple Non-Stationary Bratteli-Vershik Systems*. Preliminary report.

This poster will present Bratteli-Vershik systems for which the number of vertices of the underlying Bratteli diagram increases at a constant rate. Since the number of vertices grow at each level, the diagrams are non-stationary and there are countably many maximal and minimal paths. We show how the  $C^*$ -algebra invariant of the dimension group is related to the Vershik transformation on the diagram. We also discuss the ergodic probability measures on the path space of some particular examples of these type of diagrams. (Received September 23, 2005)