

## Weighted shifts and sliced and collapsed directed trees

### **Abstract**

For a weighted shift  $S_\lambda$  on a directed tree with a single branching vertex we consider the operations of slicing off a branch or collapsing two branches to produce related shifts and trees. We discuss the relationships between operator properties such as quasinormality, subnormality, and  $p$ -hyponormality of the original shift and the related ones. Joint work with Il Bung Jung, Eun Young Lee, and Mi Ryeong Lee.