









On the next page, there are certain sub-digraphs of the quantum k-Bruhat graph for  $n = 7$  and  $k = 4$ .

There is one for each pair  $(u, v)$  for which  $v$  is the image of  $u$  under the quantum action of the labelled diagram:

1	.	.	
2	.	.	
.	3	.	
.	.	4	

LabelledDiagram(7, 4, [(1, 5), (2, 5), (3, 6), (4, 7)])

Note that these are NOT just the intervals  $[u, v]$ : here we only include the elements that belong to a path of length 4 from  $u$  to  $v$ . The full interval  $[u, v]$  contains more elements.





