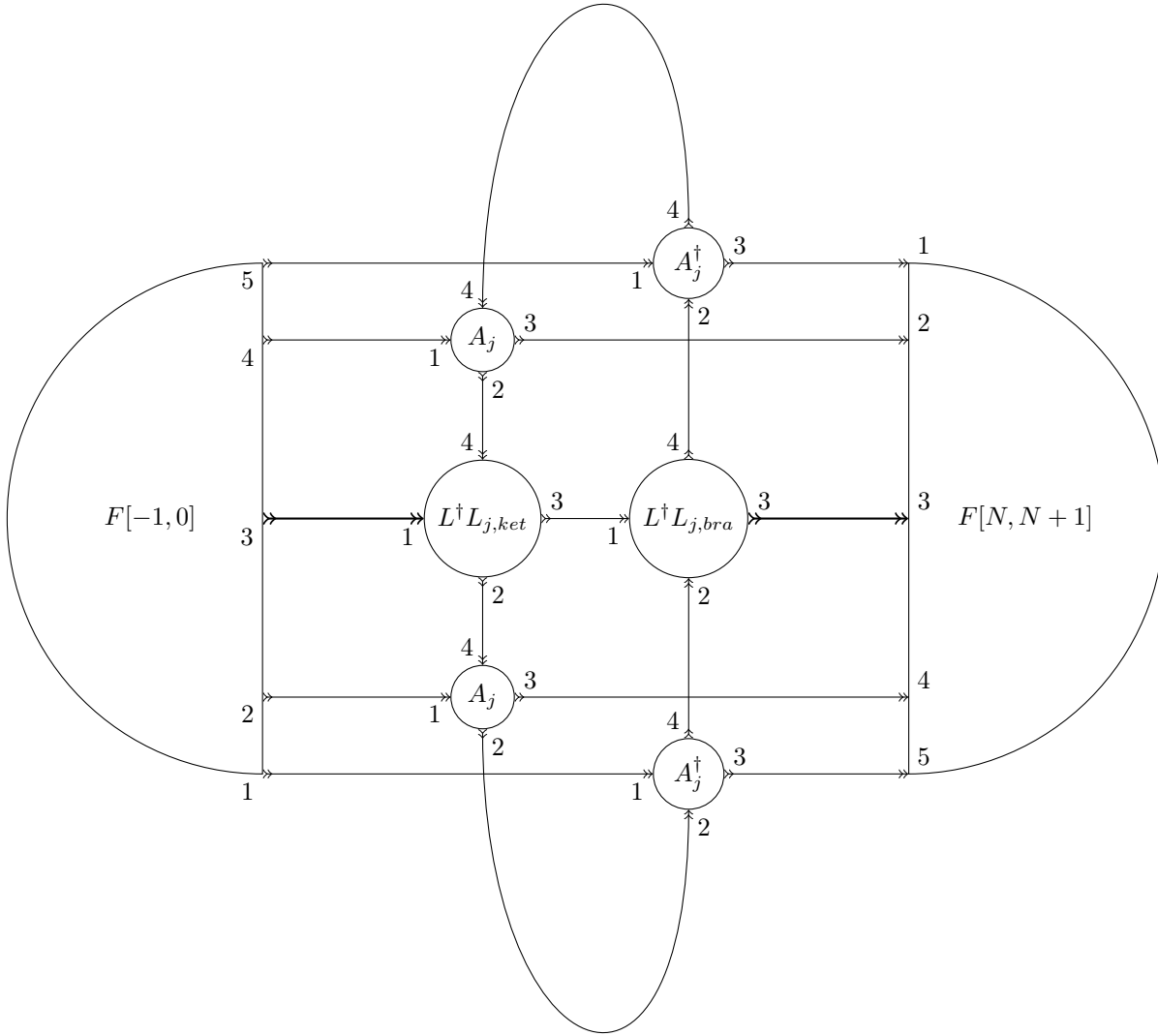


# 1 Structure

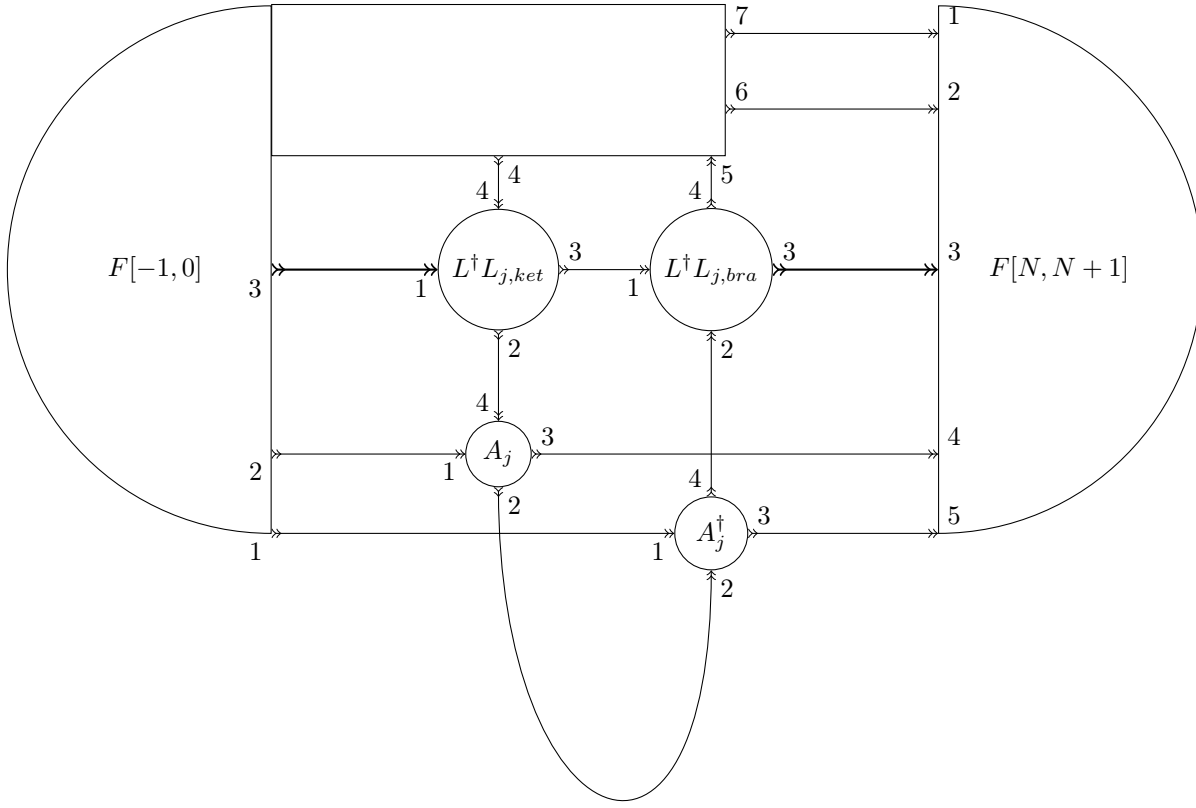
## 1.1 Notice

It is important to note, that despite axes being indexed beginning with 0 within yastn, we begin indexing on 1. That is because on contracting we begin with -1 for assigning indices for the legs of the contracted tensor.

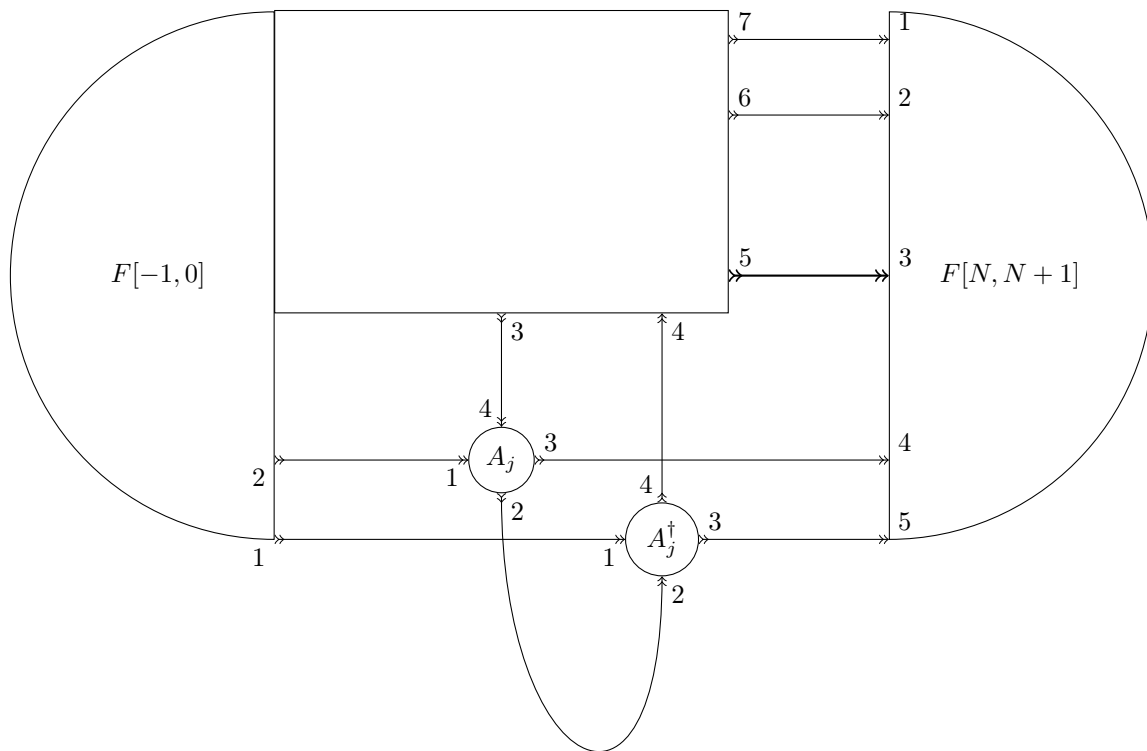


## 1.2 Left side contraction

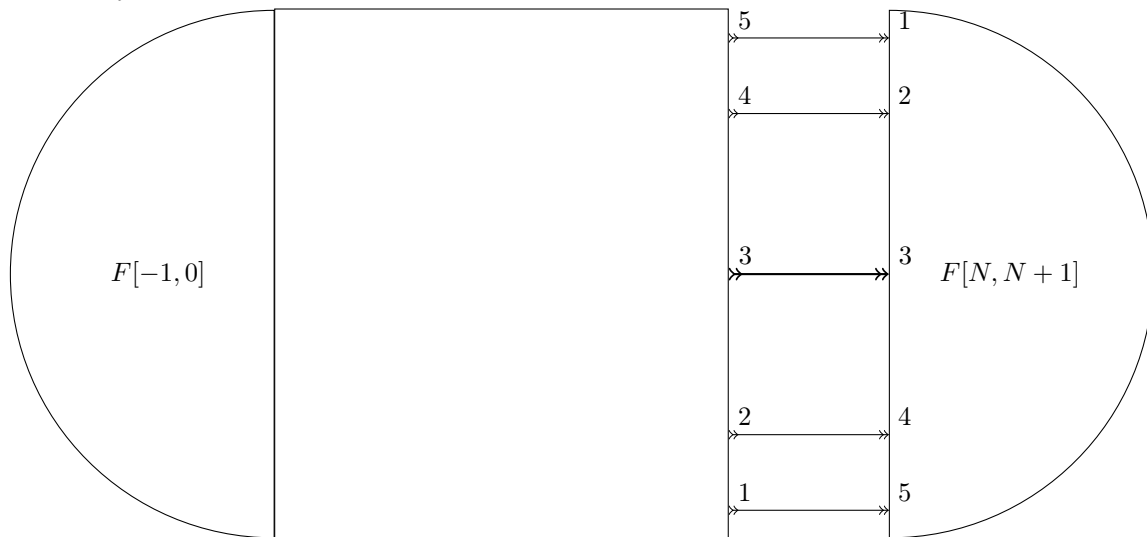
First the 'upper' Tensors are contracted.



Then the Lindbladian Components are contracted.

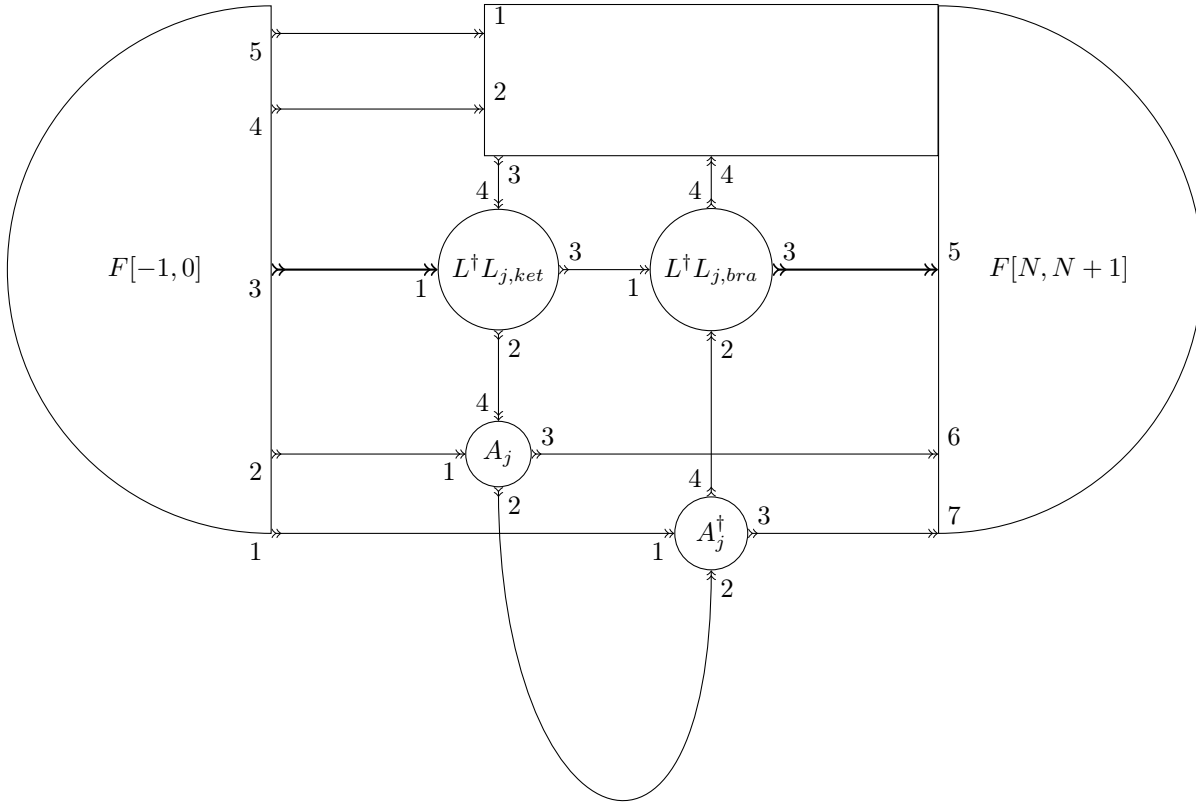


And lastly the 'lower' Tensors are contracted.

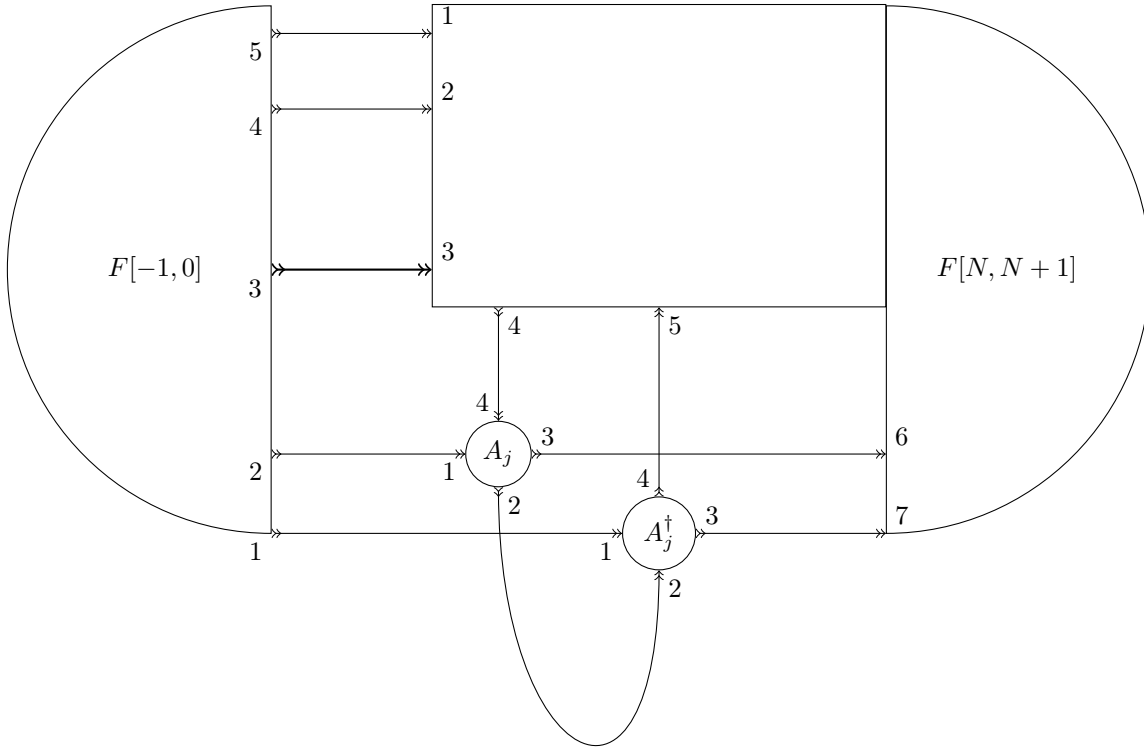


### 1.3 Right side contraction

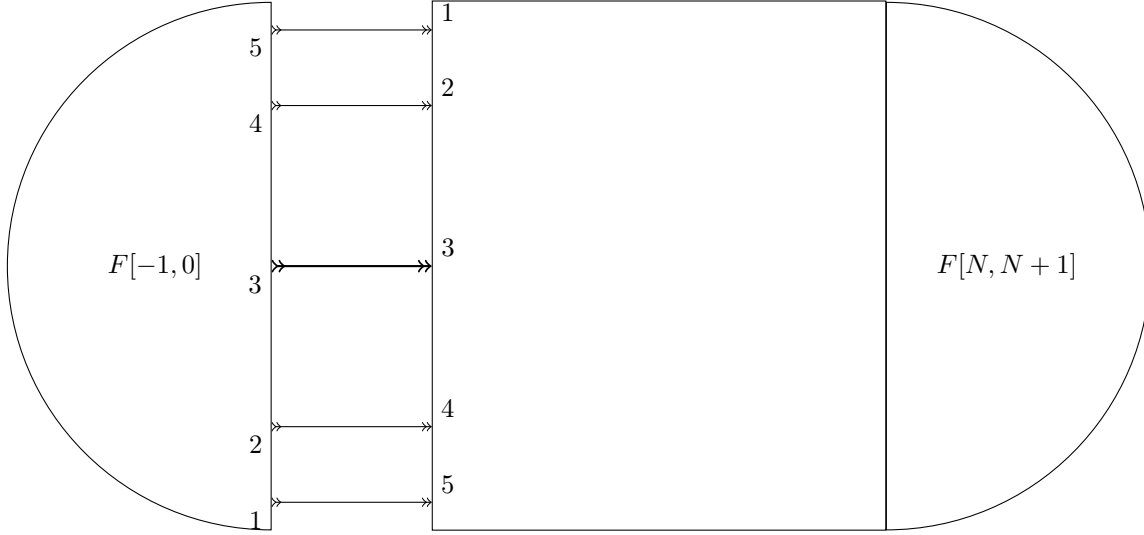
First the 'upper' Tensors are contracted.



Then the Lindbladian Components are contracted.



And lastly the 'lower' Tensors are contracted



## 2 Heff1

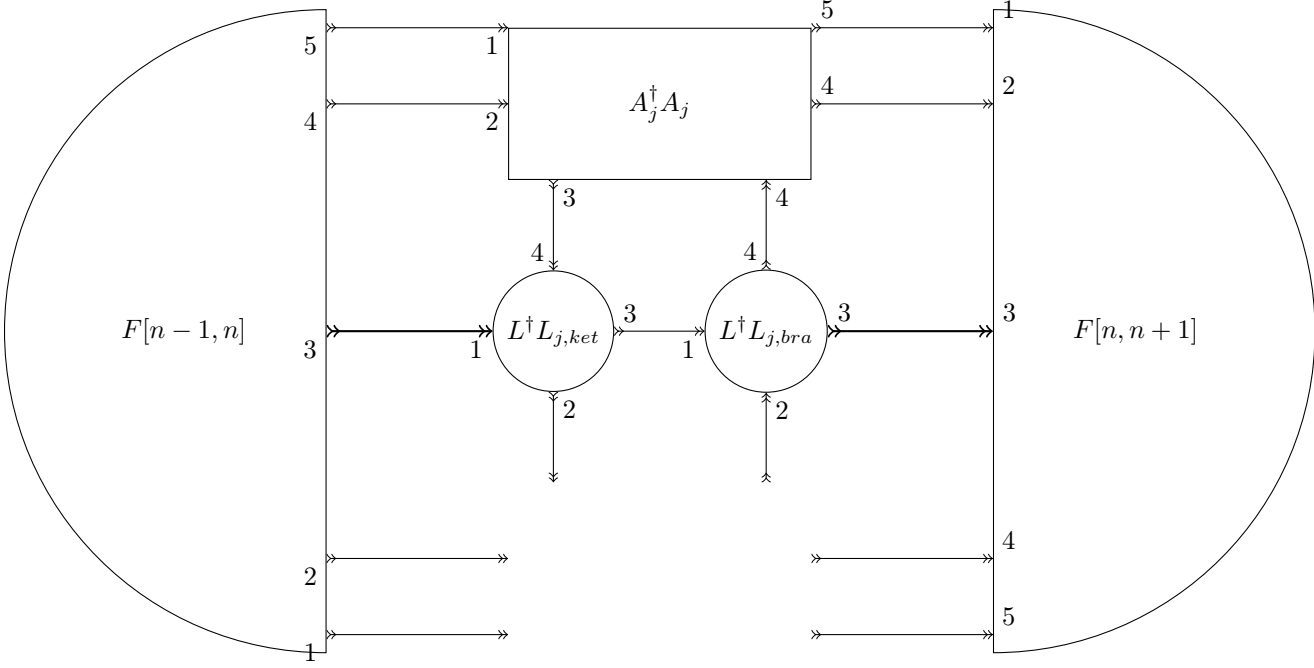
### 2.1 Description

Heff1 is the Action of Heff on a site MPS tensor Heff1 @ AdagA

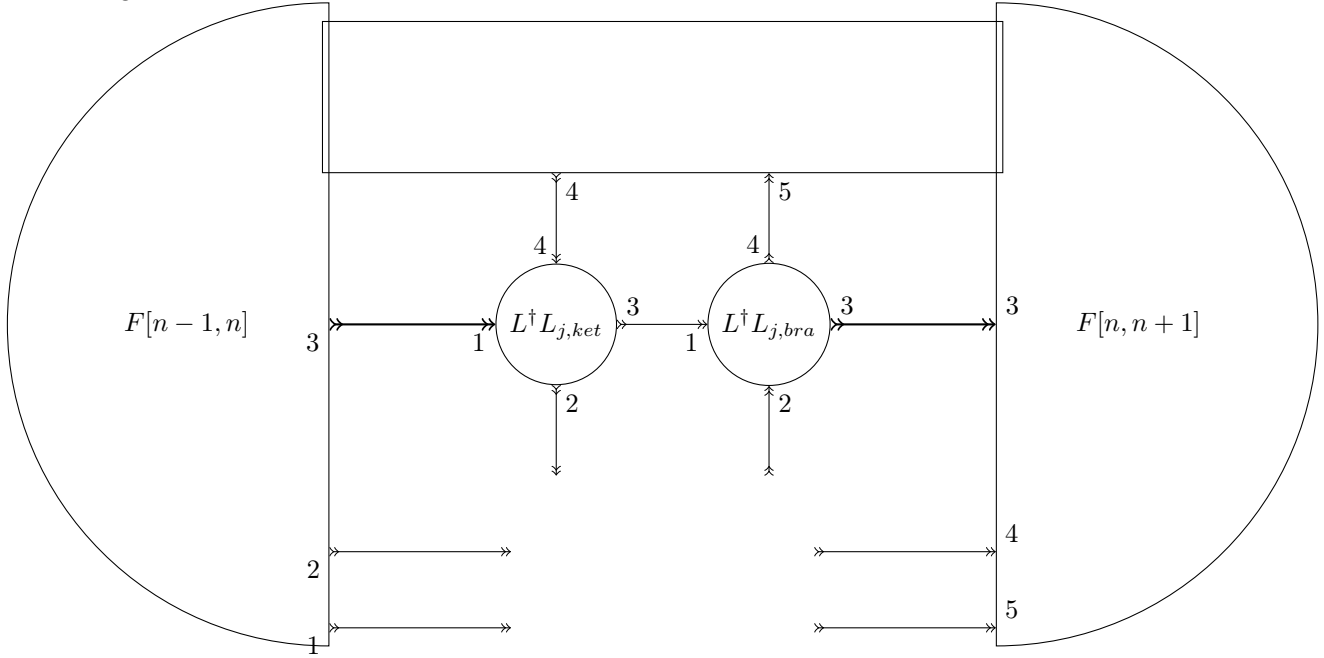
## 2.2 Parameters

- AdagA (tensor) - site tensor with 6 legs
- n (int) - index of corresponding site

## 2.3 Procedure



First AdagA is contracted.



Then the Operators are contracted.

