

Figure 1: Koopman matrix approximated with the basis functions (Laguerre polynomials) with the **lexicographic** order that we coded. This is not the increasing order.

The first some exponents of x,y,z are given as follows.

[0, 0, 0],	[0, 1, 1],	[0, 2, 2],
[0, 0, 1],	[0, 1, 2],	[0, 2, 3],
[0, 0, 2],	[0, 1, 3],	[0, 2, 4],
[0, 0, 3],	[0, 1, 4],	[0, 2, 5],
[0, 0, 4],	[0, 1, 5],	[0, 3, 0],
[0, 0, 5],	[0, 1, 6],	[0, 3, 1],
[0, 0, 6],	[0, 2, 0],	[0, 3, 2],
[0, 0, 7],	[0, 2, 1],	[0, 3, 3],
[0, 1, 0],		

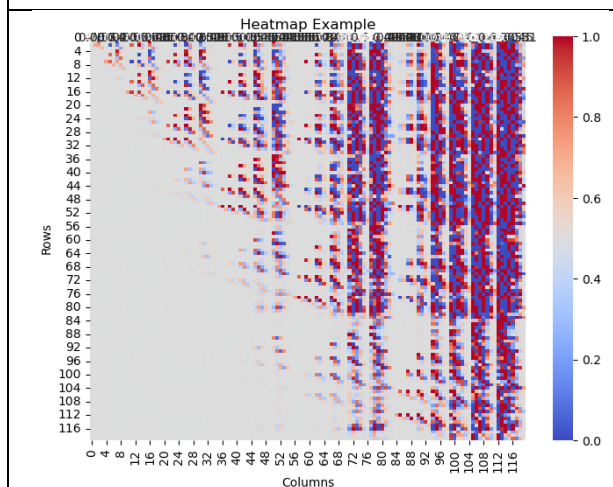


Figure 2: Koopman matrix approximated with the basis functions (Laguerre polynomials) with the **increasing** order.

[0, 0, 0],	[2, 2, 1],	[3, 3, 0],
[1, 0, 0],	[2, 2, 2],	[3, 3, 1],
[1, 1, 0],	[3, 0, 0],	[3, 3, 2],
[1, 1, 1],	[3, 1, 0],	[3, 3, 3],
[2, 0, 0],	[3, 1, 1],	[4, 0, 0],
[2, 1, 0],	[3, 2, 0],	[4, 1, 0],
[2, 1, 1],	[3, 2, 1],	[4, 1, 1],
[2, 2, 0],	[3, 2, 2],	[4, 2, 0],
		[4, 2, 1],

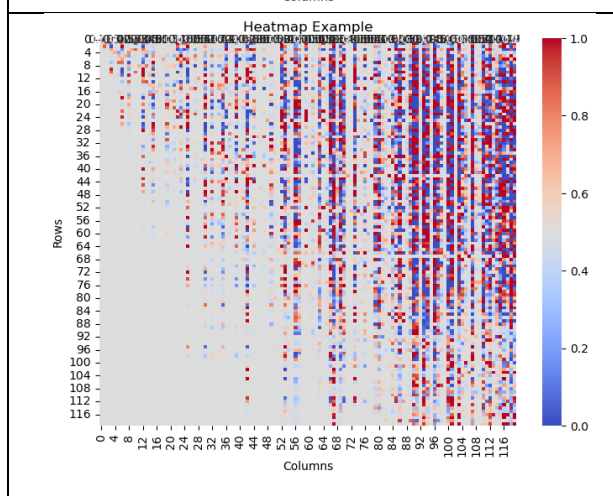


Figure 3: Koopman matrix approximated with the basis functions (Laguerre polynomials) with the **order from the Page-Rank**.

[0, 0, 0]	[3, 3, 0]	[2, 2, 2]
[1, 1, 0]	[2, 0, 0]	[3, 3, 2]
[1, 0, 0]	[2, 1, 1]	[3, 4, 1]
[2, 2, 0]	[3, 3, 1]	[4, 2, 2]
[1, 1, 1]	[4, 0, 0]	[4, 0, 0]
[2, 2, 1]	[2, 1, 0]	[3, 2, 0]
[3, 3, 0]	[3, 0, 0]	[3, 1, 0]
[2, 0, 0]	[3, 1, 1]	[4, 2, 2]
[2, 1, 1]	[3, 2, 1]	[4, 4, 2]
	[5, 5, 0]	