Sequences of Growing Networks (1)

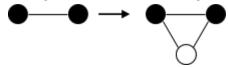
1. FORMULA

The following two transitons take place every time when moving from stage N to stage N+1

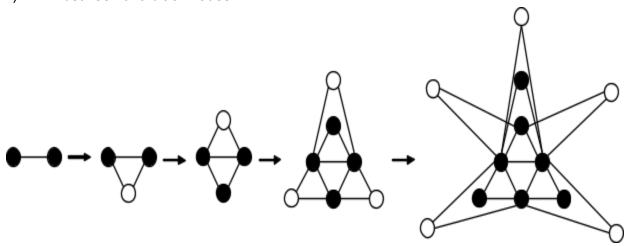
1. white node becomes black node.



2. single-linked black nodes gain two additional links with the new white node .



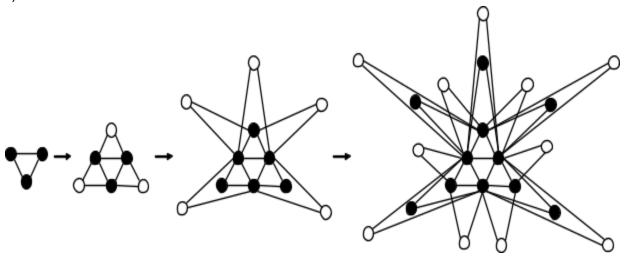
- 2. Setting initial conditions
- 1) A link between two black nodes



	1	2	3	4	5	6	7	8	9	10	11	12	13
link	1	3	5	11	21	43	85	171	341	683	1365	2731	5461
black node	2	2	3	4	7	12	23	44	87	172	343	684	1367
white node	0	1	1	3	5	11	21	43	85	171	341	683	1365

link = white node = $\underline{A001045}$, black node = $\underline{A023105}$

2) Three links between three black nodes



	1	2	3	4	5	6	7	8	9	10	11	12	13
link	3	9	15	33	63	129	255	513	1023	2049	4095	8193	16383
black node	3	3	6	9	18	33	66	129	258	513	1026	2049	4098
white node	0	3	3	9	15	33	63	129	255	513	1023	2049	4095

link = white node = $\underline{A062510}$, black node = $3*\underline{A005578}$

Sequences of Growing Networks (2)

1. FORMULA

The following two transitons take place every time when moving from stage N to stage N+1

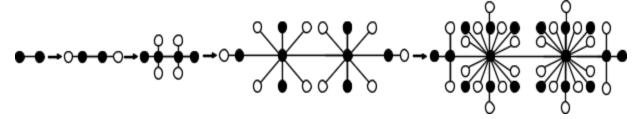
1. white node becomes black node.



2. black node gains as many white nodes as the number of links it was connected to, and becomes the sole-related node to the new ones.

2. Setting initial conditions

1) A link between two black nodes



2) Three links between three black nodes

