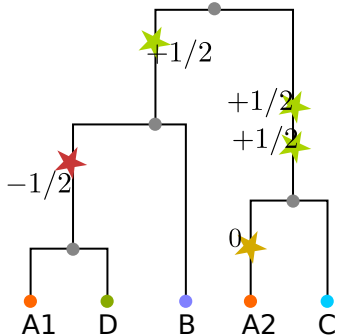


a) genotype matrix

	sample					p_A	p_B	p_C	p_D
	A1	A2	B	C	D				
site 1	A	T	T	T	A	1/2	0	0	1
site 2	C	A	C	A	C	1/2	1	0	1
site 3	T	A	T	A	T	1/2	0	1	0
site 4	G	C	G	C	G	1/2	0	1	0
site 5	C	T	C	C	C	1/2	0	0	0

b) site $f_4 : 1.0/L$ c) branch $f_4 : 1.5/L$ 