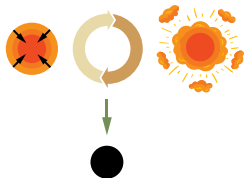
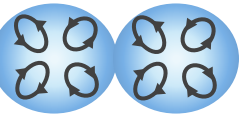
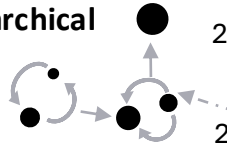
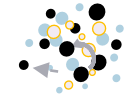



Channel	Subsection:	Shape of $m_1$ function			mass ratio $q$	Effective spin $\chi_{\text{eff}}$	$q - \chi_{\text{eff}}$ relation	$z$ evolution
		flat/rise	peak at 34	drop	prefer equal	skewed positive	small slope/ narrow	with SFR
<b>1 P-PISN</b> 	I) Standard	✓	✗	✓				
	II) Shoulder	✓	✓	✗				
	III) CCSN-transition	✓	✓	✓				
<b>2 Chemically Homogeneous</b> 	I) pure	✓	✓	✗	✓	✗		✓
	II) smt + quasi-CHE	✗	✓	✓	✗	✗		
<b>Hierarchical</b> 	2g + 1g	✓	✓	✓	✗	✗		
	2g + 2g	✓	✓	✓	✓	✗		
<b>Globular clusters</b> 	XX	✓	✓	✓	✗	✗		
	XX							
<b>Pop III</b> 	XX	✓	✓	✓	✗	✗		✗
✗ Not possible		✗ Not likely		✓ Plausible		✓ Match		