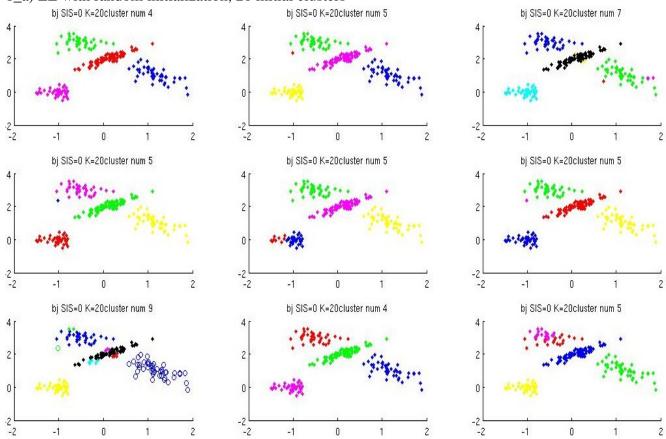
1) TOP-down Prior from ME

	Blei-Jordan (SIS 10 th)		Blei-Jordan (SIS 0th)		Collapsed (csb)		ME
	K=10	K=20	K=10	K=20	K=10	K=20	
#cluster (mean, std)	4.1 (0.3)	4.1 (0.3)	5.50 (1.58)	5.40 (1.50)	6.2 (1.6)	6.3 (0.94)	Bottom-up: 4 Top-down: 4 Local-search: 1) random update scheme:17(1.44) (merge into 12.6 (6.2)) 2) normal update scheme: 18 (merge into 8)
Rand Index		0.999 (1e-3)	0.97 (0.01)	0.98 (0.02)	0.97 (0.22)	0.83 (0.09)	Bottom-up: 1 Top-down: 1 Local-search: 1) random update scheme:0.80

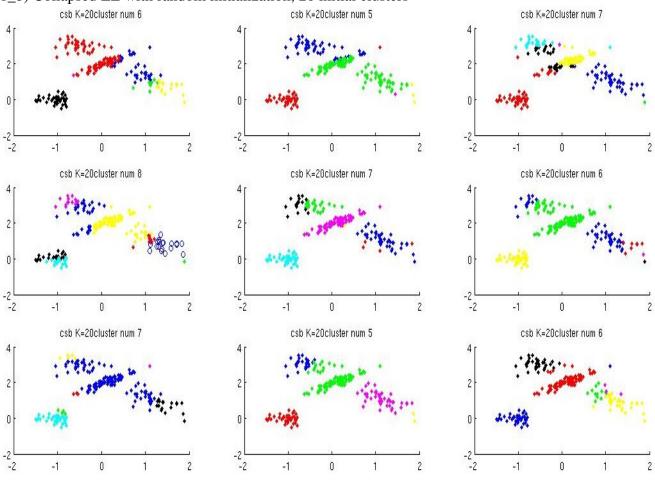
after merging: 0.88(0.1)

2) normal update scheme: 0.85 (0.93)

1_a) EE with random initialization, 20 initial clusters



1_b) Collapsed EE with random initialization, 20 initial clusters



2) I	Ble	fault prior ei-Jordan S 10 th)	(Kurihara's packag Blei-Jordan (SIS 0th)		ce Collapsed (csb)		ME
	K=10	K=20	K=10	K=20	K=10	K=20	
#cluster (mean, std)	4.1 (0.3)	4.1 (0.3)	6.89 (1.27)	7.56 (1.70)	5.6 (1.6)	7.4 (2.0)	Bottom-up: 4 Top-down: 4 Local-search: a) bottom-up prior: 12 (merge into 5) a) top-down prior: 56 (merge into 12)
Rand Index		0.999 (1e-3)	0.97 (0.02)	0.93 (0.04)	0.90 (0.11)	0.87 (0.09)	Bottom-up: 1 Top-down: 1 Local-search: a) bottom-up prior: 0.85 (0.97) b) top-down prior: 0.73 (0.82)
bj sis=0 K=20cluster num 9				bj sis=0 K=20cluster num 6 4 2			bj sis=0 K=20cluster num 7
-2 -2	-1	0 1	2	-2 -2	-1 0	1 2	-2 -1 0 1 2
4[bj sis=0 K=20cluster num 8			bj sis=0 K=20cluster num 8			bj sis=0 K=20cluster num 8
0-	嫩		i	0	w° ***	779	
-2 -2	-1	0 1	2	-2 -2	-1 0	1 2	-2 -2 -1 0 1 2
4 [bj sis=0 K=2	20cluster num 5		4 [bj sis=0 K=20clust	er num 9	bj sis=0 K=20cluster num 9 4 ſ
2	1715	STATE OF THE PERSON NAMED IN		2	1955	•	2
0- **!	嫩	1,50%	ke;	0- 4	10.88 6	8 4	0 ***
-2 -2	-1	0 1	2	-2 -2	-1 0	1 2	-2 -2 -1 0 1 2

