EM for full data set

50 runs in 637.562s, n=15730 · norm=0.0012636

Weights over time — π_j / Trial

Starting weights — π_j / j

Weights. $\pi^{(0)}=\mathrm{rand}(m,1)$ — π_j / j

Complete Log Likelihood=−87513.8701 — $l(\pi|x,y,z)$ / Trial (× 10^4)

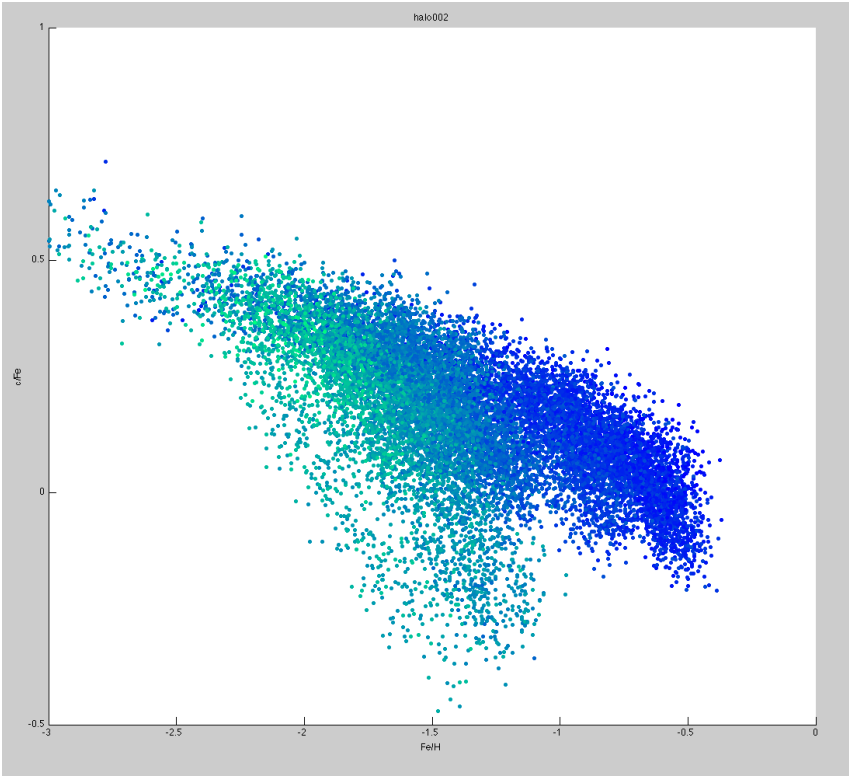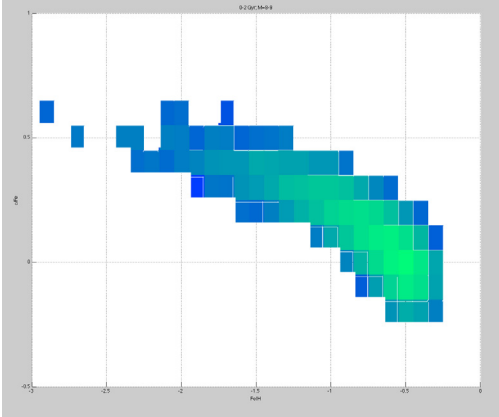| PI_J %	TIME	MASS
8.302	0-2	8-9
5.238	2-8	8-9
0	8-10	8-9
20.3295	2-8	7-8
0	8-10	7-8
0	10-12	7-8
7.8043	2-8	6-7
1.3271	8-10	6-7
0	12-14	6-7
10.8034	0-2	5-6
7.8081	2-8	5-6
12.6608	8-10	5-6
1.6318	10-12	5-6
0	12-14	5-6
13.9062	10-12	1-5
10.0998	12-14	1-5

Models

halo02

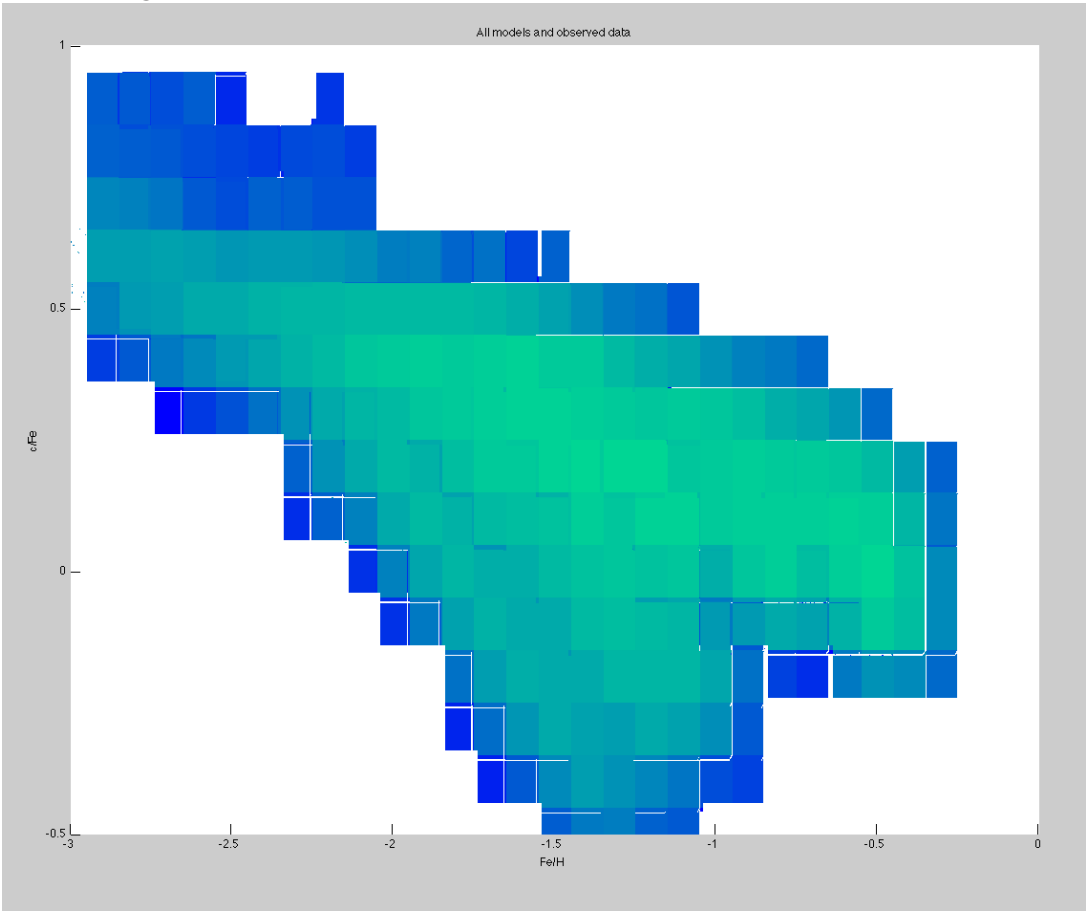Accretion Time [Gyrs] →

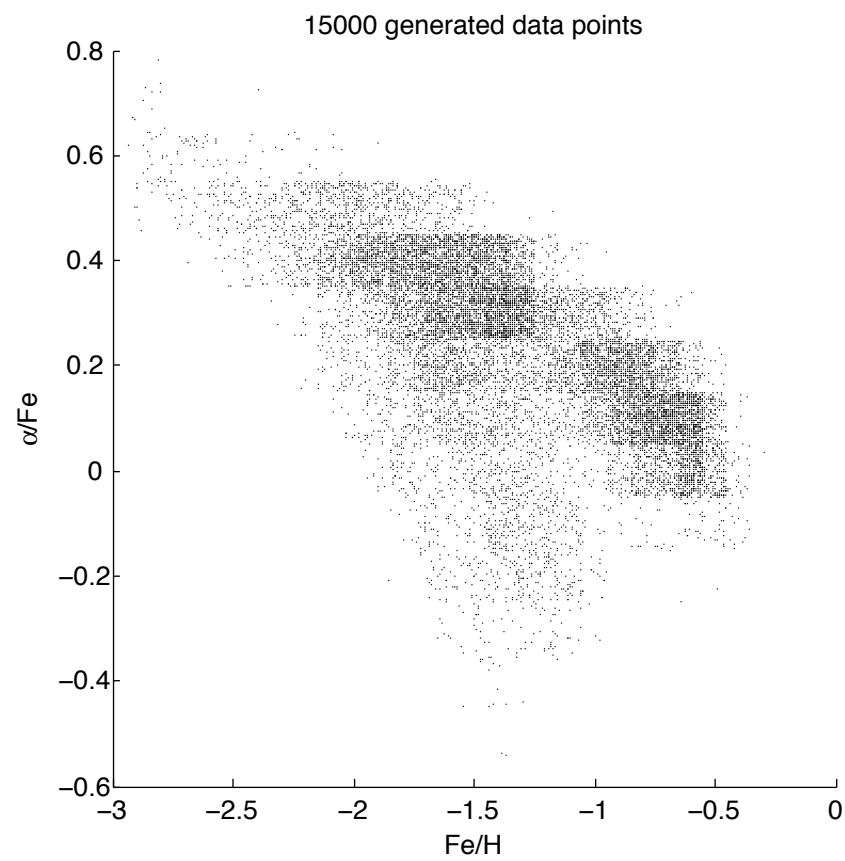Log (Luminosity) →

Observed data
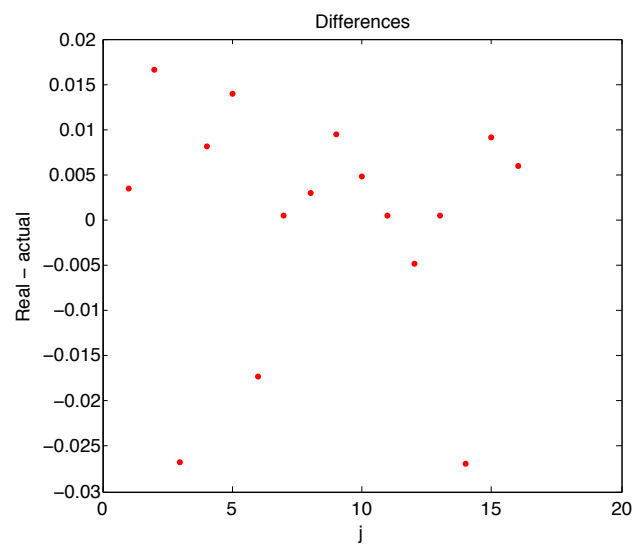

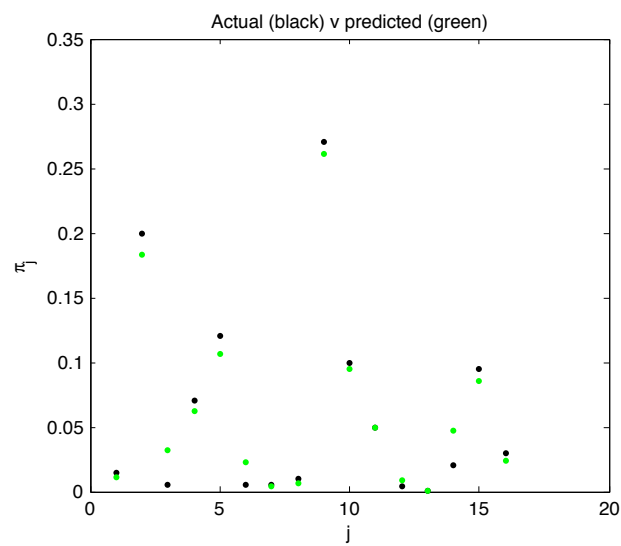# Calculated Model #1 magnified

Overlay of models & observed data

Generated data

15000 generated data points

EM on generated data results

Actual (black) v predicted (green)

Differences

EM on generated data

300 runs in 2044.6485s, n=14984

norm=3.0044e−05

Weights over time

Starting weights

Weights. $\pi^{(0)}$=rand(m,1)

Complete Log Likelihood=−65326.4334