Machine Learning

Homework 11 solution

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1.

Since the expectation of a sum is the sum of the expectations we have

$$E[x] = \sum_{k=1}^{K} \pi_k E_k[x] = \sum_{k=1}^{K} \pi_k \mu_k$$

Where $E_k[x]$ denotes the expectation of x under the distribution p(x|k). To find the covariance we use the general relation

$$cov[x] = E[x x^T] - E[x]E[x]^T$$

to give

$$\begin{aligned} \text{cov}[\mathbf{x}] &= \mathbf{E}[\mathbf{x} \, \mathbf{x}^{\mathsf{T}}] - \mathbf{E}[\mathbf{x}] \mathbf{E}[\mathbf{x}]^{\mathsf{T}} \\ &= \sum_{k=1}^{K} \pi_k \ E_k[\mathbf{x} \, \mathbf{x}^T] \ - \ \mathbf{E}[\mathbf{x}] \mathbf{E}[\mathbf{x}]^{\mathsf{T}} \\ &= \sum_{k=1}^{K} \pi_k \ \{ \sum_{k} \ + \ \mu_k \mu_k^T \} \ - \ \mathbf{E}[\mathbf{x}] \mathbf{E}[\mathbf{x}]^{\mathsf{T}} \end{aligned}$$

2.

In the general setting of the MoG model, we have for some data points x_i in the E step

$$p(z_{i} = k \mid x_{i}) = \frac{\pi_{k} exp(\frac{-||x_{i} - \mu_{k}||^{2}}{2\sigma^{2}})}{\sum_{l} \pi_{l} exp(\frac{-||x_{i} - \mu_{l}||^{2}}{2\sigma^{2}})} = \frac{1}{\sum_{l} \frac{\pi_{l}}{\pi_{\nu}} exp(\frac{-||x_{i} - \mu_{l}||^{2} + ||x_{i} - \mu_{k}||^{2}}{2\sigma^{2}})}$$

If k denotes the component that is closest to x_i , then $||x_i - \mu_l||^2 >= ||x_i - \mu_k||^2$ for all I, then $-||x_i - \mu_l||^2 + ||x_i - \mu_k||^2 <= 0$ for all I and thus the denominator converges to 1 if $\sigma^2 \to 0$. This is because if I = k, this part of the sum of the denominator is always 1, and all other summands converge to 0 because $\exp(-\infty)$ does so.

On the other hand, if k is not resembling the closest component, then $-||x_i - \mu_l||^2 + ||x_i - \mu_k||^2 > 0$ for I denoting the closest component, and with $\sigma^2 \to 0$ the exponent of the component is

$$\frac{-||x_i-\mu_l||^2+||x_i-\mu_k||^2}{2\sigma^2} \rightarrow +\infty$$

And thus the denominator converges to ∞. This results in hard assignment step of K means

Programming assignment 11: Gaussian Mixture Model¶

```
In [5]:
```

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import matplotlib.mlab as mlab
import seaborn as sns
sns.set_style('whitegrid')
%matplotlib inline

from scipy.stats import multivariate normal
```

Your task¶

In this homework sheet we will implement Expectation-Maximization algorithm for learning & inference in a Gaussian mixture model.

We will use the dataset containing information about eruptions of a geyser called "Old Faithful". The dataset in suitable format can be downloaded from Piazza.

As usual, your task is to fill out the missing code, run the notebook, convert it to PDF and attach it you your HW solution.

Generate and visualize the data¶

```
In [6]:
```

```
X = np.loadtxt('faithful.txt')
plt.figure(figsize=[6, 6])
plt.scatter(X[:, 0], X[:, 1])
plt.xlabel('Eruptions (minutes)')
plt.ylabel('Waiting time (minutes)')
plt.show()
```



Task 1: Normalize the data¶

Notice, how the values on two axes are on very different scales. This might cause problems for our clustering algorithm.

Normalize the data, such that it lies in the range \$[0, 1]\$ along each dimension (each column of X).

```
In [7]:
def normalize_data(X):
    """Normalize data such that it lies in range [0, 1] along every dimension.
    Parameters
    ------
    X : np.array, shape [N, D]
         Data matrix, each row represents a sample.
    Returns
    -----
    X_norm : np.array, shape [N, D]
         Normalized data matrix.
    .....
    X \text{ std} = (X - X.min(axis=0)) / (X.max(axis=0) - X.min(axis=0))
    X \text{ scaled} = X \text{ std} * (1 - 0) + 0
    return X scaled
In [16]:
plt.figure(figsize=[6, 6])
X \text{ norm} = \text{normalize data}(X)
plt.scatter(X norm[:, 0], X norm[:, 1]);
```

Task 2: Compute the log-likelihood of GMM¶

Here and in some other places, you might want to use the function multivariate_normal.pdf from the scipy.stats package.

```
log_likelihood : float
    log p(X | \mu, \Sigma, \pi) - Log-likelihood of the data under the given
GMM.

"""
log_likelihood = None
return log_likelihood
```

Task 3: E step¶

```
In [79]:
def e_step(X, means, covs, mixing_coefs):
    """Perform the E step.
    Compute the responsibilities.
    Parameters
    -----
    X : np.array, shape [N, D]
        Data matrix with samples as rows.
    means : np.array, shape [K, D]
        Means of the GMM (\mu in lecture notes).
    covs : np.array, shape [K, D, D]
        Covariance matrices of the GMM (\Sigma in lecuture notes).
    mixing_coefs : np.array, shape [K]
        Mixing proportions of the GMM (\pi in lecture notes).
    Returns
    responsibilities : np.array, shape [N, K]
        Cluster responsibilities for the given data.
    .....
    responsibilities = None
    return responsibilities
```

Task 4: M step¶

```
responsibilities : np.array, shape [N, K]
    Cluster responsibilities for the given data.

Returns
-----
means : np.array, shape [K, D]
    Means of the GMM (\mu in lecture notes).

covs : np.array, shape [K, D, D]
    Covariance matrices of the GMM (\Sigma in lecuture notes).

mixing_coefs : np.array, shape [K]
    Mixing proportions of the GMM (\pi in lecture notes).

"""
means, covs, mixing_coefs = None, None, None
return means, covs, mixing_coefs
```

Visualize the result (nothing to do here)¶

```
In [80]:
def plot_gmm_2d(X, responsibilities, means, covs, mixing_coefs):
    """Visualize a mixture of 2 bivariate Gaussians.
    This is badly written code. Please don't write code like this.
    .....
    plt.figure(figsize=[6, 6])
    palette = np.array(sns.color_palette('colorblind', n_colors=3))[[0, 2]]
    colors = responsibilities.dot(palette)
    # Plot the samples colored according to p(z|x)
    plt.scatter(X[:, 0], X[:, 1], c=colors, alpha=0.5)
    # Plot locations of the means
    for ix, m in enumerate(means):
        plt.scatter(m[0], m[1], s=300, marker='X', c=palette[ix],
                    edgecolors='k', linewidths=1,)
    # Plot contours of the Gaussian
    x = np.linspace(0, 1, 50)
    y = np.linspace(0, 1, 50)
    xx, yy = np.meshgrid(x, y)
    for k in range(len(mixing coefs)):
        zz = mlab.bivariate_normal(xx, yy, np.sqrt(covs[k][0, 0]),
                                    np.sqrt(covs[k][1, 1]),
                                   means[k][0], means[k][1], covs[k][0, 1])
        plt.contour(xx, yy, zz, 2, colors='k')
    plt.xlim(0, 1)
    plt.ylim(0, 1)
    plt.show()
```

Run the EM algorithm¶

```
In [84]:
X_{norm} = normalize_data(X)
max iters = 20
# Initialize the parameters
means = np.array([[0.2, 0.6], [0.8, 0.4]])
covs = np.array([0.5 * np.eye(2), 0.5 * np.eye(2)])
mixing\_coefs = np.array([0.5, 0.5])
old_log_likelihood = gmm_log_likelihood(X_norm, means, covs, mixing_coefs)
responsibilities = e step(X norm, means, covs, mixing coefs)
print('At initialization: log-likelihood = {0}'
      .format(old log likelihood))
plot_gmm_2d(X_norm, responsibilities, means, covs, mixing_coefs)
# Perform the EM iteration
for i in range(max_iters):
    responsibilities = e_step(X_norm, means, covs, mixing_coefs)
    means, covs, mixing_coefs = m_step(X_norm, responsibilities)
    new_log_likelihood = gmm_log_likelihood(X_norm, means, covs, mixing_coefs)
    # Report & visualize the optimization progress
    print('Iteration {0}: log-likelihood = {1:.2f}, improvement = {2:.2f}'
          .format(i, new_log_likelihood, new_log_likelihood - old_log_likelihood))
    old_log_likelihood = new_log_likelihood
    plot_gmm_2d(X_norm, responsibilities, means, covs, mixing_coefs)
At initialization: log-likelihood = -382.7055152420654
```

Ao8++ih1dXUD5hU/Uvn73//OtGnTqKys5J133uF3

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Iteration 0: log-likelihood = 131.29, improvement = 513.99

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NRssPJnY2aZvsjbKmZ8KDARusFqtA4/YrHHO/J3Ec+bPOC28F/uAcTabbQjwDPBG+7ayfbTwXhza 7jlgSfu2sP205F5YrdYU4DXgcpvNNgiY0e4NbQct/Lm4F9hps9mGARcBf7NarZp2bWj7+Rcw5Tjr Wx0727pUwRmVM3+KTngvbDbbGpvN5mj4+CPxwekzUUt+LgDuBz4Bqtuzce2sJffiRmCBzWYrBbDZ bGfq/WjJvZABU8PTqxGwA5H2bWb7sNlsK4hf37G0Ona2dYA/Y3Lm20Brr/N24OvT2qKOc8J7YbVa c4CrOEO/0TXSkp+L/kCq1WpdbrVaN1mt1pvbrXXtqyX34hUgDzglFAD/z2azxdqneZ1Oq2OnKDbW CVit1ouJB/hHOrotHejvwCM/4/+8jamAkcA0YDLwB6vV2r9jm9RhJgP5QFdgOPCK1Wo1d2yTfjra OsC3Wc78GaBF12m1WocCbwFX2Gy2unZqW3tryb04G5hvtVpLgGuA16xW65Xt0rr21ZJ7UQYsttls XpvNVgusAla1U/vaU0vuxa3Eu6tkm81WTHzcakA7ta+zaXXsbOs3WUXO/GEnvBdWq7U7sAC4yWaz 7Wr/JrabE94Lm83W69C/rVbrv4AvbTbbZ+3ZyHbSkv8jC4k/qaoADfH/Jy+3ayvbR0vuRSlwCbDS arVmAVbiKdk/R62OnW36BC9y5g9r4b34X8BC/Gk132q1buyg5p5WLbwXPwstuRc2m60Q+AbYBqwn nj64vaPafLq08OfiGeB8q9VaAHxHvBuvtmNafHpZrdYPiKclW61Wa5nVar39VGNnm+fBC4IgCJ2D GGQVBEE4Q4kALwiCcIYSAV4QBOEMJQK8IAjCGUoEeEEQhDOUCPCCIAhnKBHgBUEQzlAiwAuClJyh /j+xS1NuUNkf3wAAAABJRU5ErkJggq== " >

Iteration 1: log-likelihood = 131.48, improvement = 0.19

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Lo1j6PUsW7ueW6dcQ/8+Z87QSbBamTBq1Gm/nxSfwOVjxjbZFqyF+Gz5V1Q7nVjMZmRZZtO2LVRW VTlpwkOxNi8lQofQlQeSj1RVU3i4jlSEBDRqNWqVipSEBMqrqykuO9lkX4/Xy5bde0hOiEev1alS KkmwWvD6fOw9kH9O2ld8+DBVDgd|CQmoVSo0ajX|iUkUlpZS5XCck2sKgiA0V4cM8LX19cD|NVsU koSzpqbJtrqGBoCT3jDVaTWUV1Wfk/Y5Xa6T2iZJEkgSNbW15+SagiAlzdUhA7wpLo5TLcMnA1az uck2o8EAskwoHG6y3ecLkJTQ/PVUY3F0WKZJ2xqXDjSdkFYpClJwvnTIAJ+WIEhGSqqVThfBUIhQ KEyV00WCxUzn9LQm+xr0evrbelPpcOAPBAjLMq7aOtQqJdk9e5zmCq3TJSMDq8VCtdNJOBwmGApR VV1NRmoaKc1YBUoQBOFc6pCTrAqFgqvHjOJfi5ewauNmwnKY7B49mDRu7EkleQFGDxmM2+dI7aYt eHw+unfuxNTLJ5z0klJbUavVXHvFFXy3ZSsHDh1EoZDlze7H0AEDmj3B6nA62fX9HqodTlJTUujX pw8Wk/nsBwgCllxFhwzw4XCYtxf/l532A+gbc9f3FRbx+oef8NDdM1CdEOT35hdgLyikc3o6apWS Bo+XNRs3c8NVV0QXzWhrRkMcE8eMYfyoUaes8R6LIxXlfLbsCyRJgU6rZbd9L/sO7GfqpMnEW63n oNWCIPyQdMghmoKSEnbtP0CC1YLZaMQYZyDRYuFgSSnbvt/XZF9/IMDazVtltFiwmk3EGQykJCZQ 7aph38FD57ytCoWiRcFdlmW+3bQRjVpNvMWCXqcj0RpPKBRiy47t56ClgiD80HTMAF9cCtCkHEAk kEaC//FctXWEwiHU6qZP9XqdlqLDTVMqO5IwOExFdRVxhrqm201GIyVlpeepVYIqXEw6ZIC3mIzA yU/FMmA5YVxdr9USDsuET8hq8QcCjefpmBQKBTqtjkAw0GS7P+DHGNdx2y0IwoWjQwb4QX1smI0G XHV1hMNhwuEwtfUN6LRaLhmY22RfkzGOnl27RDNaANxeL7Isn7MsmrYgSRID++XgrKkh2LjiVCAO oL6hgYH9+p/n1gmCcDHokJOsGo2GX94+nTcXLaasoggQMRuNjMztT97uPaQIJtLg9bLLvp8j1VWY DAYMOj1VDicKhYI4g54p4y8jMf7cTFTW1tdz4OBB6hrqyUhNo1vnzidN/Maif3Y/AsEA23fvlizL qJQqxoy4hO5ZWW3faEEQfnA6ZIAH6Jyeyu9n3UN5VTX5xaVs3rmLwxUVFB0+zCeFxdR73Ph8fiQp Mtxh0Om4ZNBArr/ycoxxBpTnqJxvWXk5ny1fTkgOo1lq2b1vH2nJyUyZeDmaxoVBYqVQKBg6cDC5 /frj8XqI0xta9ItCEAThVDrkEM3xEiwWdtrtWExxJMVbqa1vQEamvsGNVqMmrrGipFKlYuOOHbhq a89ZcA+Hw6z8dj0ajZqk+HisZjMpiYkcqajAnt/yujcatRqLySyCuyAlbarDB/gqlwt/MlhWo2l8 S7U2MmYtQbBxzF2IVOLz+ZCBPeeowBhAfUMDtXV1xBkMTbbHxcVx4NChc3ZdQRCElujwAV6tUoEc qUsjcTRdUsHxxchkWUZqfGrXaps3TNlcKpUKGU6qQxMKhdDpzs0LVYlgCC3V4QN8otVCckl8rto6 JEkiNSkRpUKCxoAvyzLBUCi6turQnH7nrC0GvZ6sTp1xuFzRIB8KhfB4vWT37n3OrisIqtASHT7A S5LEpEvHYjGZqHQ40ajVmOLiyOqUQTgs0+DxApFx7KvHjKK47AiVjYti17vdfJ9fwN4D+dTVN7RJ e8aNHElacjJVDgdVDieu2lpGDh5CUnwC+woK+P7AflEyWBCEDuGCmNWzmIzcOvlqqpxOflEAyfHx eH1+qlwuyisrCQRDfH8gn/yiYg4UFSMhkZQQj8PpJCyHQZZQKCTGjxxBdq+erWqLQa/nuiuvwuFy 4vX5iLdYgayu5r1FnxBqzGdHkhq5eDAD++W0wd0LgiC0zAUR4CEy9p6SmBj9WqfVYjWb6N4pkwVL PkOlVhFvtQDg9fn4ZtNmsnt2jx4TCARZueE7OqWntbrKpCRJJMYnAODz+/lqzWr0en20sFkwFGJD Xh6dMzKi+wmCILS3Dj9EczbOmlpg6usbFwmJaHC7USoU1NTVR7ep1SrCcpjisrl2vX55ZQXBUKhJ 1UqVUokkSRSWiJoygiCcPxd8gG+caT3FxlPvHMnAaR9i7W1BEM6nCz7Ax5vNWM2mJpOocQY94bDc pDBZIBBAKUI0Sktt0+unlaeqVqnw+nzRbcFqEFmW6ZLZqU2vIQiC0BwXfIBXKBRcNXYMkkKiwuGq orqa2voGxo0YhiRJVFY7qKx2UFtfz/hLRrb5Kk8ajYYrLh2H1+ulqrqaqupqXLW1jBo2jMT4c7Mm rCAlQiwumEnWM0lOSGDGtOsoLjuCz + 8nNTGRBKsFt8dDyZFyZGQyU10bjNO3pS6Zmdx + w42UlpURNDSFt8dDyZFyZGQyU10bjNO3pS6Zmdx + w42UlpURNDSFt8dDyZGQyU10bjNO3pS6Zmdx + w42UlpURNDSFt8dDyZFyZGQyU10bjNO3pS6Zmdx + wCodJT0nBbDKdk2sJgiDE6qII8BDJg+/RpXOTbXEGA7bu3drl+nqdjp7d2udagiAlsbjgh2gEQRCE UxMBXhAE4SIIArwqCMIFKqYxeIvNdiXwV0AlzLfb7c+d8H2p8fvXAG7qLrvdvqWN29qmPF4fXp8P kzEOIVJ5vpsjCILQ5s4a4G02mxL4B3AFUAJsstlsS+x2+57jdpsE9Gr8MwL4Z+O/O5xAMMi6zXns PXAAGdCa1YweOoO+PTru+q2ClAqtEcsQzXDqqN1uL7Db7X7qfWDqCftMBd6x2+2y3W7fAFhtNlt6 G7e1TXy7ZQs77XbiLRaS4uPRaDR8tXY9pUeOnO+mCYIqtKIYAnwmUHzc1yWN25q7z3nn8/vZve8A SfHxKI4uEKLRoNNq2P799+e5dYIgCG2r3fPg8/Ly2vuSTQzvazt5Y2P5gvZu2/nui45E9MUxoi+O EX3ROrEE+FLg+DelOjVua+4+DBkyRJTfEgRBaCexBPhNQC+bzdaNSNC+FZh+wj5LgPttNtv7RCZX a+x2e9vW5RUEQRCa5axj8Ha7PQjcD3wJ7AU+tNvtu2022y9sNtsvGnf7H1AAHABeB2ado/YKgiAI MZLkk2qpt87FmDPfUjH0xe3Aw0QK2NcB99rt9u3t3tB2cLa+OG6/YcC3wK12u/3jdmxiu4mlL2w2 22XAPEANVNnt9nHt2sh2EsPfEQvwb6ALkRGHP9vt9rfavaHtwGazvQIMASrsdvtJ6322JHa26Zus x+XMTwKygdtsNlv2CbsdnzP/cyl58xedGPvilDDObrf3B54GXmvfVraPGPvi6H7PA8vat4XtJ5a+ sNlsVuAV4Dq73d4PuLndG9oOYvy5uA/YY7fbBwCXAX+x2Wyadm1o+3kbuPoM32927GzrUgUXVc58 K521L+x2+3q73e5s/HIDkcnpi1EsPxcAvwQWAhXt2bh2FktfTAc+sdvtRQB2u/1i7Y9Y+kIGTI1P r0bAAQTbt5ntw263ryFyf6fT7NjZ1gH+osmZbwPNvc+fAkvPaYvOn7P2hc1mywSu5yL9RHecWH4u egPxNpttlc1my7PZbHe2W+vaVyx98TLQFzgM7AR+Zbfbw+3TvA6n2bFTFBvrAGw223giAf7h892W

82ge8PAP+C/v8VTAEGAycBXwpM1m631+m3TeXAVsAzKAgcDLNpvNfH6bdOFo6wDfZjnzF4GY7tNm s+UC84Gpdru9up3a1t5i6YuhwPs2m+0QcBPwis1mm9YurWtfsfRFCfCl3W5vsNvtVcAaYEA7ta89 xdlXdxMZrpLtdvsBlvNWfdqpfR1Ns2NnW7/JKnLmjzlrX9hsti7AJ8AMu92+r/2b2G7O2hd2uz26 HJbNZnsb+Mxuty9uz0a2k1j+jnxK5ElVBWil/D15qV1b2T5i6YsiYCLwjc1mSwVsRFKyf4iaHTvb 9Ale5MwfE2NfzAESiTytbrPZbJvPU3PPqRj74gchlr6w2+17gS+AHcBGlumDu85Xm8+VGH8ungZG 2Wy2ncAKlsN4VeenxeeWzWb7D5EUYZvNZiux2Ww/bW3sbPM8eEEQBKFjEJOsgiAlFykR4AVBEC5S IsALgiBcpESAFwRBuEiJAC8IgnCREgFeEAThIiUCvCAlwkVKBHhBEISL1P8HI04ezoft29wAAAAA SUVORK5CYII= " >

Iteration 2: log-likelihood = 131.75, improvement = 0.27

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Iteration 4: log-likelihood = 132.77, improvement = 0.62

BLdGDUjNzET5+O1YoVCSIZ1Ny0YvzjD/ww8/sGzZ

 $\label{topiconstant} MiZPnsxXX31F84YNyJbJNHIRISoVKenpNGtYH10dHVo0akhmVpbmTVypVJKWkUnLRg01Am9vZ4ed tTWp6eno6+tjbWWJQqFAR5L/Vp+nUKAW+QJf2daWbxYuJDU1lcWLF2PwzEPq+X6+rcTExDB06FB6 9uyJnp4eAQEBeHl5FSnuarUaf39/pkyZQvXq1fn+++9p3749QUFBhlWFMXLkyDKJe1RUFB4eHixc uJARI0Zw4cIFrbhr+U9SYd7g07OyiliKRpojw9nRnppVndB7ztYXollrXbKk2RwPPU96lhQQvFO3 DuYmJgghihXHn376ifnz5zN27FgW/bCY89ducD/ulUgk3l1+gJmpKSbGxrg3eYcWjRoCUK9mDXJz 8zh3+TLKx94xbZs3pVHdp+O/Ojo69O7UkeNnzhET/xAzU1Mq2dpinJNDRlYmerp6ODs6UsfFhYTo + +zatYvxH09AYmREljQbc7Oif3m8bW/wubm5rFy5kkWLFqFWq1m0aBEzZ84scpw9KSmJrVu3sn79 eu7evYu1tTUzZszg448/platWmVugxCCP/74g8mTJyORSNi+fTujR49+qx+YWrS8ChVC4KMfPsLn eHB+3KauLpcj71Dd0YF+HTugr1+wiRlSKbfuP0Cep0Aqk6MjkRB+K5Lk9AzebdGc1k0KG0lt2rSJ$

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oyGjUzoZnd|bb|4EQfh5Oe8Df|Wvmu25B0m02+ovtlZVlRp/gOKgG7NRj06rRafV4vHVoJVlVm7d Tf8eXVm7YzcWkwGTlbl2r9dpiY+xsma7q4E9u7N6uwMdKssWf8m3C7+q+HABCSkduPa2u3j92X9q Mpna8tAFQRBO6bwP8J7qGiSpcRZNbSCIrJGo9vuxWRoGYZWwquKpjtwQVVHprb8we4ROq8VZ5WXj pk3855l/sHHIT9T6/XTrmcIV/3MTA4aNoNRdJYqACYLQ7p33Ad5utSDLMoFgsL56o9loIBQMY7dG 4Q8EMRn0qKqKioSERHJsDBpZJj0pHsfBAuJt0QAEAwFWLfuB5V8v4q87t6PT6xkwYhRTr5xF5+6R JiCVXh+pCXHiZiNBENq98z7AG/V6RvfN5NsN24gyGdBrtXhrakiOs2PQaSiucBEIhgirYSxGA5Is MW5AHyRJYuhFPck5VMj27TvYsuon1iz7niqXk46dOvHPf/6TaTNmsmjdFmRJwl8bwFtTQyAYYvro i9r6sAVBEE6r3QZ4fyDI2p05bMw5QDis0rdbOiMuysBs0B+37aCe3Shyuvlu/Va8NX56pnfg7l9c irPKw6rtDqpKyiHodfTuks6IPi1|TYilsrKSzz76qHf+8x82b9qErNEwcNqI7rrzDq675pf1Z+hx cbFk79jD4bIKunZIZnCvDFLiY/HV+FmzfTfb9x1Aq5Hpl9GNQZkZ6HXtdkoFQfiZaZfRSFVVPvtp HfsOFxMbbUWWYO2uveQXI3HD5FHH5aov3+pg2758IE5p6LUaXFU+FqzcwG+mjWOA0q3RfteuXcuj D7/BBx98gNfrpU+fPjz33HPMnj2bhlTjG2Yn2mOYdvGQRo8FQyE++e4nSpxuYqOjCKsqP23eTmFZ BTPHiRRVHwVBaBfaZYA/XOZk3+ESkhtUdEyOjeFwuYv9haX0SEuu39ZX42ftzhySYmPQaiIn3fEx Voor3Gzdl8elixQ2bNjAxx9/zMcff0xeXh5ms5lrrrmGW2+9lSFDhjQ7lB84XExxhYvkuKPpkSlx dvYVFB73uCAlQltplwHe6fEhwXGBV5KgvNJDjwaPub0+gPrgDpEz9fLDB3l60WdsXbuS3NxctFot kyZN4m9/+xszZszAZjt5r9XTKXO7keVjxyYhSRLOKo8l8llgtAvtMsDbLCaQaFSLBQAVYuvquhwR bTahouLzedmzfSvb1g9i2/p1lBUXotFoGD9+PH/605+YMWMGsbHNb+BxInarlQbNmilDi/QOxNag 96sqCE|bapcBPiU+lo6|cRwsLic+xoqERHIIFfExVrqkRGqmq6pKTk4OixYtYt6HH7Nlw3qCwQB6 g5Huvfsy9vKZPPmnB+nWuVOLj69Lh2TibFGUutzERltRVZUyVyXpyYln1AVKEAThXGiXAV6WJa4c OZiXFyzl63VbCasqSkocPSwq/3jqSdatW8e6desoKioCoGfPnlw6cxZSbAoxqZ3p1SWda8aPoFPy 8RdNW4Jep+XqCWNYvnk7u/bnl8sygzIzGNE3s9nr+aVON5scOZRWuOiQGE9/pTsxomuTlAgtoNUD /IIFC0hISCA+Pp6EhARstkjzi1AoRGlpKYWFhRQUFPDmgg/ZvXc/fncFZQf380VpUf0+FEVh4sSJ DB8+nClTpuAKwsLVmzHpdei1Gqqq/XydvY3rJ11cX4agpVnNJqaOGMyUYQPr19+bq6CkjI+/+RFJ kjAZDGx27GX7vqPMnnwJcTHR52DUqiD8nLR6qJ8+fXrjAWi12Gw2nE4n4WMXtqFTlJXE9K4oq0dq iEvhT3f8msnDB9Y/7w8EmTdvMQk2a30OepTZRGG5ix37DzGo56kLf52tM72jVVVVfly/Gb1OR3Td ur3ZaKDcXcnqbTu5bNSwlhymIAg/Q60e4LOzsykrK6O0tLT+vy6Xi7i4OFJSUkhJSSGn1M2ynXmk pXVAqzt6BI7qqqTQ7Wu0P2eVh1A4fNwNRmajntzCknMe4M9UOKxSWF5B4jHlhG0WC3mHi9toVIIq XEhaPcAPGiTotNv8tHU364s8jYJ7hESMtXGWismqJ6xGioq1bIVXGwqel3HTnkhyZFmmNhjE0KAW fE2glugokYkjCMLZa5cVs4b07I7NYsLp8UaKhKkqbq8Po0HH2KzGNdRtFjM90ztQ4nTXL/F4a/yE VZW+3Vo+g6alyJLEkN49qXBXEgyFgMgvpSqvj8G9lTYenSAlF4J2mUVj1Gv507VX8OL8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvJNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8bzhYWq5qSqvNNSQl8byNNSQl5Mx9dB+FVTtzSI2z462uYUNOHofLK4g2m7GYjBQ73ciSjNVs5Oqxw0i0n5sLlW6Pl50HDuH2eOmU nED3tlT6SpbNMSCzB7XBAOt37CEUDqPTapkwdCBKp47nYNSCIPzctMsAD9A5OYF/3TGbgilnOQVF rNi2h/zScvYVIvJu/gqqqv3U+GuRJAlZlogyGhjXvxfXjh9BtMWE5hyV8z1YUsbH360gFA6j1WjZ nLOf1IQ4rr5kJAa97vQ7aEAjy4zMuojBvRR8NX4sJuMZ/alQBEE4kXa5RNNQgs1KtmM/MVEWEmNs uDxeQKLKW41Rr8NqNqLXaNFqNPy0xUFFleecBfdwOMzi1Rsw6HQk2mOIjY4iOc5OQWk523Pzzni/ ep2OGGuUCO6CILSodh/qS1yV1AaCGPU6wqpKRaWXQDAIEqRDkTV3jVamujYAEmzem3/OxlLprcZV 5SXK3LhVX5TZxK68Q+fsfQVBEM5Euw/weq0Wlbq6NESWNaS6M/T6m4uOZNCo6jm7sQlAq42UKQ6r aqPHq6HQca3/BEEQ2lq7D/AIMVaS7TYqqixIkkRKXAxaSQI1UI1SVVUCoTA6rQa9TsuI3j1Ov9Mz FGUy0j0thX|XZaS4G|HqXl3jp39G+8y3FwTh56vdB3h|kvjFqEHYrRaKKtwY9Fqio8x065BIOBzG U+1HAgw6HdNHDmR/YSIFFW5UVaXSV83W3Hy27MuvLyt8tiYP7U9qQhzFFW5KnG6clR7GDriIRLuN Hfvz2br3ABWVnhZ5L0EQhLNxXlzVs1st3HzpWlqdbvyBAEl2G9X+WkpcIRSUOQmEQmzZm8/u/EJ2 5xeCBMl2G6UuN6GwChJoJImpQ/vRr/vZ5cZbTEZ+NXEUpa5Kqv1+4m3RFFW4+M/nXxMKh1DVSI77 mP4XMbR3RgvNgCAlQvOdFwEelhUmU+KO3tZvMuiJjY4ily2Ff3/5HTqtljibFYAaf4ClG7bTr2tH OtS9pjYYZNHazXROTiDmLO8UISSJRHukYUhNbS1fLF+HxWSsX/8PhkL8uGkbXTok1W8nCILQ2tr9 Es3plLmrcHp8RFuOZrZUVlejkSWcHm/9Y3qtlnBYZX9hSYu+f0FpBYFqsNHFXa1Gq4TEvoLCFn0v QRCE5jjvA3zd9dbGjwHqsQ/WPSHJrdcQW0I03xYEoe2c9wE+LtpKnNXS6CKq1WwkrKrYG7TPqw0E kSWZzkkt2wQkLSEOvVZLtb+2/rFAMIQKdEtNPvkLBUEQzrHzPsDLssSVFw9ClmSKKlwUVrhweXxc OrgvkizVP+b0+Jg2rN9Zr78fy6DXMX3UEKpr/BRXuCgud+KsrOKSgX1IEOvvgiC0ofPmIuupJMfa uHP6ePYXIIITCNAhNoaEGCueaj95xaWoKnRKim+0Tt+SuqYmc/uVU8grKiEUDpOWEE9MOy5VLAjC

z8MFEeABDDotPdNTGj1mNRu5qEvrVGY0Gw1kdhZVIAVBaD/O+yUaQRAE4cREqBcEQbhAiQAvCIJw qWrSGryiKFOA5wEN8F+Hw/HkMc9Ldc9PBXzAiO6HY2MLj7VF+fy1VPtrsVIMaDWath6OIAhCiztt gFcURQO8DEwEDgHZiqIscDgcOxtsdinQo + 5nKPBq3X/bnUAwxDcbtrN5X6RuvEGnY + LA3vTtKi6QCoJwYWnKEs0QYK/D4ch10By1wIfA9G02mQ6843A4VIfDsQaIURQI5dgdtQffbdrJhj0HiluOIjEm GoNOy+crN3KquKythyYlqtCimhLqU4GDDf5+qO6x5m7T5vy1ATbl5|Foj65v62fU6zDpdWTvzm3j 0QmClLSsVs+D37BhQ2u/ZSOTTvTFlikKaP2xtfVctCdiLo4Sc3GUmluz05QAXwA0XKBOq3usudsw cOBAUX1LEAShITQIwGcDPRRF6UlkaF8DzD5mmwXAXYqifEjk4qrb4XCIWrmCIAht6LRr8A6HIwjc BXwN7AI+djgcOxRFuV1RINvrNlsE5AJ7gdeBO8/ReAVBEIQmktQTFk4/cxdizvyZasJcXAv8gUgJ +yrqDofDsaXVB9oKTjcXDbYbDKwGrnE4HPNacYitpilzoSjKWOA5QAeUQRyQMa06yFbShM+IDXqP SCey4vC0w+F4s9UH2goURZkLXAaUOByOi07wfLNjZ4veydogZ/5SoBfwK0VReh2zWcOc+VuJ5Mxf cJo4F/uBMQ6How/wGPBa646ydTRxLo5s9xSwtHVH2HgaMheKosQArwBXOByO3sBVrT7QVtDEfxe/ BXY6HI4sYCzwL0VR9FyY3qKmnOL5ZsfOli5VcEHIzJ+I086Fw+FY5XA4nHV/XUPk4vSFqCn/LqDu Bj4FWravYvvSlLmYDXzmcDjyARwOx4U6H02ZCxWw1p29RgEVQLB1h9k6HA7HT0SO72SaHTtbOsBf MDnzLaC5x3kTsPicjqjtnHYuFEVJBa7kAv1G10BT/I1kAHZFUX5UFGWDoig3tNroWldT5ullIBM4 DGwD7nE4HOHWGV670+zYKYqNtQOKoowjEuD/0NZjaUPPAX/4GX94G9ICA4FpwGTgz4qiZLTtkNrM ZGAz0AHoB7ykKEp02w7p/NHSAb7FcuYvAE06TkVR+gL/BaY7HI7yVhpba2vKXAwCPlQU5QAwC3hF UZQZrTK61tWUuTqEfO1wOLwOh6MM+AnlaqXxtaamzMWviSxXqQ6HYy+R61Y9W2l87U2zY2dL38kq cuaPOu1cKlqSDnwGXO9wOPa0/hBbzWnnwuFwdDnyZ0VR3glWOhyOz1tzkK2kKZ+RL4icqWoBPZHP ybOtOsrW0ZS5yAfGA8sVRUkCFClp2T9HzY6dLXoGL3Lmj2riXPwFiCNytrpZUZT1bTTcc6qJc/Gz 0|S5cDgcu4AlwFZgHZH0we1tNeZzpYn/Lh4DRiiKsg34jsgy3gVZGVBRIA+IpAgrigIcUhTlprON nS2eBy8IgiC0D+liqyAlwgVKBHhBEIQLIAjwgiAIFygR4AVBEC5QIsALgiBcoESAFwRBuECJAC8I gnCBEgFeEAThAvX/AbxuWIIY7Wu4AAAAAEIFTkSuQmCC " >

Iteration 5: log-likelihood = 133.81, improvement = 1.04

WVuTkJyMgb4+NpaWKBRKdCQSdHV0UCgUyGVytv6+

CgMDA/z9txcp10zPP/8Mw0jRowtdR0mjUCj48ccfqVmzJteuXWPlypXMmDEDPz8/ypcvj7e3N3v3 7uX//u//OH36NEePHmXOnDI4eHgUS/thYWG0aNGCOXPmMHjwYC5evKg1yWj5T1JqFlmTUtN4EPqU 1Awp5Z0cqFiubI6wvgC1PSqTmpZOwOVrJKWmAYIaVSpiZmKCECLXuDGHDx+mb9++1K9fn/3796NU Cy7fvkdoRBRIJDx6Fo6ZiQmmxsZ8UrMaH1f3BMDTvQIymYyLN2+jVKnQ1dWhad1a1KhcSVO3jo4O XVo258TFyzyNjMLc1BSVrYrUDCOSUILQ19Mj6MQxop6Hs33HDtLkSgluXCYlKQFnl/JYmBUsSYer qyuzZs1i8uTJ7NmzBx8fn4INdAlz+fJlhg0bpsmL6urqyvTp04mNjcXlyIh27doxYMAAunTpojGV 3L9/v9ja37ZtG8OGDUMIwZYtW+jXr1+x1a1Fy4eG5KV54X0QFBQk6tWrl+P408ho/joZiBACXV1d ZAoFrk4OdPNqioF+9u+ghJRUth85wZPnkcQlJSORglGBPuUdHfCqV4dGtblvXJ48eZKOHTvi6enJ iRMnkCqU7Dh+iucvYkllTkEqMDYwwNHOFq/6dWhSu2aO+1MolaRLpZqYGb01qFe6VErY80qCLl1G qcpKAn4I8Cxbfv+NcePH06BVW6Lj4zHQ1yc+Ph5bW1u6t2mVZyapvFAoFNStW5fk5GTu3r2b7yBc JUlyciJixozhiz/+wPhvE1ZGRqZmZmZ07tyZHj160KFDh1yjMt6/fx9PT88itZ+WIsaoUaNYv349 jRo1YvPmzVSoUKFIdf4TFMdY/FvQjsUrgoKCqFevXoGjHv7jJhqVWs3h81cwMTLC3toKGwtzHG2s eRoZzcOnOe3MZ4JukJqRQXpmJrZWFthaWaIr0UEmU/D/7d15eFTV/fjx9519ycxkX0qIAQLDvi+R HVQ2EbWKa7WI+IWLtWpt1W/rQm1/Bfu1Vi1Va1Xq0rpbQXABARf2NRBCGCBs2cg+M5I9u78/JoSE NQkhCXhez8MDmblz7pnzkM+cOfdzP2fDrnxqnXUNx27bto3Zs2fTs2dPVqxYqcViYcWGLYRCIdwe L3FmEwkWCxE5OhPfkleAo851yjnVKhWxJtM5KzbqNBrW5+4ixmAqLTEBvUrFknf/TVZ2L3KunEZ5 dbRMc|zZTKwpBrVSxeqNm2nph6xareaVV16huLiYqQMH8vHHH7e4jbbq8/|YuXlls2bNljExkTff fBMAg8HAjTfeyNKlS6msrOTdd99lzpw5F6zk7q5duxgxYgRvvfUWTzzxBN99991FGdwFoa11elCv ddbh9vkw6LQNj0mShFGvZ9+R4ibHhiMRDhaXopAkkGlYjtFqNdTW1QEypZVVABQWFjJz5kwSEhJY sWIFiYmJuDxeahxOQuEISI1er1HjqHMhI1NWVd3q91LjdOL1+9Bro+/I3X+9gd/n46c//wV7Cg+d smeq0aCn2u7A5fG0+Fxjx45lzZo1mM1mbrjhBq644gp2725+gmhrlJSU8Omnn/K73/2OqVOnEhcX x9SpU1m+fDI6vZ7777+fHTt2UFFRweLFi5ssw1wIsizzyiuvMHr0aJxOJ6tWreLpp58W2+kJQr00/

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Pj/rdu8j72ARSqWCYb26k9O3Z8OdrlIqCB2tU0YjWZb54Pvt7C+pINEcqyTBhoKDHK6o5mdTL0N9 0pZ13+btl/dgMX0zu9SvoXv4ZP0O7pk5npHWrLOeK8liYuKAnrzzzgb+uGgRe/bslSsrixdeelG5 c+diMplOeU0oHOY/q9ZTYXeSYDISkWW+zS2gtLqWmyaNFrN7QRA6hU6ZRVNcZedAaSVd4i1o1So0 KhVp8RZKqu0cOlbd5Fi3z8+6PYWkxlkwaDWolEqSLCa8/gC5hcVnPc+ePXv4xS9+QXp6OvPmzUOr 1fLOO++wf/9+fvnLX542uAMcLK2gvNZBapwFtUqFVq0mLcHCgZJjHKtxtNk4ClIgnI9OOYO3uzxl cMpMWIFEpcNF7/Tkhsccbi8QrQ3fmF6jobjafkrbwWCQJUuW8Pe//51vvvkGjUbDTTfdxLx58xg9 unmz70pHHYqTjpPqtwqsqXORliDKCQiC0PE6ZYC3GPXIEk1qsQDIQILJ2ORYs0GPLMuEI5EmG3p7 g0HS4swNPxcUFLB48WLefvttjh07Rrdu3Vi4cCE/+9nPSEpKalH/4s0xROSmW+8d3zrQYjS0qC1B EIQLpVMG+IzEOLoIxXO0ooYkSwySJFHpdJFkiaFnWmKTY2P0Wkb2zmJDwUGSLCbU9WvwGqWSHgkm XnnIFRYvXszmzZtRKpVcddVV3HXXXcycOROI8tSKjc3RMy2ZRIspugZvjkGWZSocdXRPSWpSq14Q BKEjdcoAr1BlzBk7lL8uXcOyzflEZImh2RncOGFok5K8x105rB9uX4CvthfqdLlQ28twFubx+59+ js/nY8CAAfzlL3/htttulyUI5bz7p1GruPXyMXyTW0D+4WIUksToPj2ZMKhPiy+wVtQ62GY7SHmt g4ykBIZbuxMndm0SBKENdMoAH4IEeG7JN2zZV4RRr0MhQd6Rcp75cDXP/HQ2KIXT9faNBfv58JP/ 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Y/ToNWryDpcileNw+zHptejUKgKhMCqVkjU7D3D1qAHEmS7MGnYkIvPZhp1o1WpMBI3D40WVNew6 WMyoPt1b1a5WrW6yDi8IqtAWOmWxscbK7S78oRB6jZqILFPtdBMMRdfmw/Vr9CqIAp8/iCzlbDtw 9g|j58Ph9IDrcjc|7gAmg478IyUX7LyClAit0ekDvEalrK/zliMRXdaQFBI0urllluXoYzLotRfu S4lapUSGU+rQhMMR9FoxAxcEoXPp9AE+2RJDWryZaqcHSZJIT7CglKLBXEJClmVC4QgapRKNWsX4 /j0vWF9i9Dp6p6dQ6ahDrg/yoXAYt9/P8F5ZF+y8qiAlrdHpA7wkSdw0fijx|qNINU60GjWxMXp6 dUkiLEdw+gKAhE6t4oaxgyk8Vk1ZjRNZlnF6fOQeLGZHYTH2+rLC52vW6MF0TYynvNZJea2Dmjo3 VwztR2qcmbxDxewoPEq109Um5xIEQTqfF0XKRnyMqZ/PGEtZrRN/MERanAmPP0i5w0lxpYNAOMyO whL2FFWwp6gcJIm0ODMVtU7CERIJiuadXz16AMOzzy833qjXcseVl1Fhr8PjD5BsMVFaY+dvS1YT CkelFjWWuGJoX8b0z26T9y8lgtAaF0WAh2jZgvSEE7f167UaEsxG+qSn8uKy71CrFCRaorXiff4g X2zdw7AeGQ2vCYRCfLZpNz1SE4g7zztFJUlqyLH3BYJ8/P02YnRa9PX7xYbCYb7eUUDPLskXLBdf EAThXDr9Es25VDpd1Lq8Wlz6hsccHh9KhUSNy9PwmEallhyRKSyratPzF1XWEAyHG4I7qEqpRAL2 I5S36bkEQRBa4qIP8EDDBc/j6q/BnkKSQHGBboA6HbH5tiAlHemiD/BJ5hqSTMYmF1HNeh0RWSYu 5sSs3h8MoZAkugfEt+n5uybFo1Yp8fqDDY8FQ2FkILtL8plfKAiCcIFd9AFeoZC4cdwQFIIEWY2T 0moHNW4Ps0b2RyFJINY4KKIxUOvyck3OwPNefz+ZTqPmhnHD8fqDINU4KK2xU13nYtrw/mL9XRCE DnXRXGQ9m7R4Mw/OnkihsSp8qRDpCRaSLTG4vH4Ollcjy9A9Jb7JOn1byk5P4ZfXXs6hY1WEIxEy k+KJO2IzcEEQhPZ2SQR4AK1aRb+uqU0eMxI0DO7ePpUZjTotA7JEFUhBEDqPi36JRhAEQTq9EeAF ORAuUSLAC4lgXKKatQZvtVgnAy8ASuA1m8228KTnpfrnZwle4Kc2m217G/e1TXn8ATz+lBajDrWy 5bsxCYIqdHbnDPBWq1UJ/B24EiqGtlit1qU2m21Po8NmAL3q/4wGXq7/u9MJhsJ8sX0v2wqLQI5e nJ0xvC9De4qLpJIqXFqas0QzCjhqs9kO2my2APAecM1Jx1wDvGWz2WSbzbYRiLVarWlt3Nc28VXu XjbvO0KS2UhqnAm9RsVH63ZyqLy6o7smClLQppoT4NOBokY/F9c/1tljOpwvEGTr/mJS40wNe7bq NGoMWiUb9h7p4N4|qiC0rXbPq9+2bVt7n7K|q3snnvpqsq6Q271vHT0WnYkYixPEW|waxuL8NCfA lwCNi6hn1D/W0mMYPny4qL4lClLQTpoT4LcAvaxWa3eiQftm4NaTjlkK/Mlqtb5H9OKqw2azlbVp TwVBEIQWOecavM1mCwG/AL4CCoAPbDZbvtVqvddqtd5bf9jnwEHgAPBPYN4F6q8gCILQTNLJtdTP 16WYM99azRiL24BHAQmoA35us9l2tntH28G5xqLRcSOBDcDNNpvto3bsYrtpzlhYrdZJwPOAGqiy 2WwT27WT7aQZvyMW4B0gk+iKw7M2m21xu3e0HVit1jeAWUCFzWYbcJrnWxw72/RO1kY58zOAfsAt Vgu130mHNc6Zv5tozvwlp5licQiYaLPZBql/AF5t3162j2aOxfHjnqFWtG8P209zxslqtcYCLwGz bTZbf2BOu3e0HTTz/8V9wB6bzTYYmAT8xWq1arg0/QuYfpbnWxw727pUwSWVM3+ezjkWNpttvc1m q63/cSPRi9OXoub8vwC4H/gYqGjPzrWz5ozFrcAnNpvtKIDNZrtUx6M5YyEDpvrZawxQA4Tat5vt w2azfUf0/Z1|i2NnWwf4SyZnvq209H3eCXxxQXvUcc45FlarNR24jkv0G10jzfl/0RuIs1qt31it 1m1Wq/WOdutd+2rOWCwC+qKlQB7wqM1mi7RP9zqdFsdQUWysE7BarZQJBvhHQ7ovHeh54NEf8C9v YypgOHAVMA14wmq19u7YLnWYaUAu0AUYAiyyWq1iq7RmausA32Y585eAZr1Pq9U6CHgNuMZms12q 9RKaMxYjgPesVuth4AbgJavVem279K59NWcsioGvbDab22azVQHfAYPbqX/tqTljMZfocpVss9kO

 $EL1u1aed+tfZtDh2tvWdrCJn/oRzjoXVas0EPgFut9ls+9q/i+3mnGNhs9m6H/+31Wr9F7DMZrN9\\ 2p6dbCfN+R1ZQnSmqgI0RH9P/tquvWwfzRmLo8DlwPdWqzUFsBJNyf4hanHsbNMZvMiZP6GZY/EkkEB0tpprtVq3dlB3L6hmjsUPQnPGwmazFQBfAruAzUTTB3d3VJ8vlGb+v/gDMMZqteYBq4gu41V1 Tl8vLKvV+i7RFGGr1Wottlqtd55v7GzzPHhBEAShcxAXWQVBEC5RlsALgiBcokSAFwRBuESJAC8lgnCJEgFeEAThEiUCvCAlwiVKBHhBEIRLlAjwgiAll6j/D8+wxSSS5dSFAAAAAEIFTkSuQmCC" >$

Iteration 6: log-likelihood = 135.74, improvement = 1.93

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Iteration 8: log-likelihood = 150.67, improvement = 10.79

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Iteration 9: log-likelihood = 181.12, improvement = 30.45

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Iteration 10: log-likelihood = 220.93, improvement = 39.81

7vhszm0/vw68XrpDy4+3swqbw5HvM4coliDkluK7

LYolLe4grn7BeDkXnVdGq5SRW8spP3YHeGhVmG2OfOJvtjlwVsmJijrInDlzWLp0KSaTifDwcMaN G/dARUycVHIcIndF5JitDjxKGAm0cuVKhgwZgsVq4+m3vqBtl575rguCkO9FliEh8e/jkclF89Lj uYE7OZbc5F4OUSQ5x0JVTyfa1PAm9rYMjQqNMxnXL5F8YFORWRurezsT6KYhlevW/VkmK3KZwEuP B5GYbcZmz32xGHKy+Wv1r2wc+xLNmjVj+fLlDBw4kKNHjxIREfHAFar8XNTUCXDJNxeDxY5NFHm6 mO4Zk8nEW2+9Ra9evahVqxb7D0bRoG0X0qy3smT+f3t3Hh9VdTd+/HPv7JOZTCYrWSAJEC5BVhFF UEBxA7WttSpSrRUVVypFqa2ty8NT9fGn/qpYl0esYKVisbVWrFWriKICsokocCGEkAXIvs4+c+/z x4TAsE4qDCGe9+vFSzNz5s6555V858y53/s99Z4qLquRQVnO4+qvIAjdW8JLFbT4Qx310TsjL8XG NcNzeG1tFXVtIYwGiX5pdp6/cggZDgsvryxn4+4WJFni9GvuRG7Zw713Tufdv73BjlcfR3Lnku20 MCzXFbt5tK5zQf905q0qp7zRT7rDRKrdzC/HFTIw04nX42PB2++x86ullH75AeGAj6HDhvHcc89x 7uQr2OmR2W2QyGrx0+s4UxglSeKW0QW8vGon3+5uQZYlrEYDd4wpoI/76EXQVFXImmuuYcOGDcye PZtHHnkEk8nEPVleXvyyjJ2NPtChV7KF28cUYhUzeEHo0aRE7p25du1a/ZUyE7PP6x9zG/7RfLe7 hWeW7yCkaUQiOrWelKPzU7h/YhGm/TJLatsCelMRspOtGGWY+9wL/Po3vyEUDDD8ipsZdNkN9HII cd/5/UI3WPAEwjz16XZK670YJGqNREi2GpmmmFn3+VLee+89PvnkE/x+Pza7nSuvupoZd9zOGWec wTubqvnHxj3Rr0ASSEjceGbvuGfaR8sQqGkN4AtFz8VsPPIXLV3XmT9/Pr/4xS+wWq38+c9/ZvLk yTFtNE1nV4sfSY|sp/WEFi3rL|EtsY8Yi33EWOyzdu1aRo4c2ek/2oTP4GV|Yt7Kcn4/SYmrcmMo ovG/K3fitBg7Ns8oSLOzvd7Lppo2huXsq/WS4Yhdc88+90f88lkivl30B9Ytfp6KlR9y5rT7WZxq 5+enZ7Fq6Xq+WLmJpFAzrfXVNFXvYtu6L/nTrjIAioqKuPXWW5k8eTLjxo3Dao3O0Csafby9cQ+9 U6wY26stBsIRFqyuYGh2Mq4uuNs0M8669LW1tUyfPp23336bCRMm8Nprrx2y3IAsS+SlilwZQfg+

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Iteration 11: log-likelihood = 234.06, improvement = 13.14

wXNmbG4PplBfWgcbKgSzW4sA3hgey6FMM063SGyY

kehAfb0FddvZPL767Rwuj7dAdpS/jhub+xNgUNM10p9qH++Tx|I9KcSfyEf7axY73n+|c4f3MGrU KJYsWUJIiDdz59C5Ypb+mkqp04OEREyggcd6x1SxY5CRkZGpietG4MEr8q2DfWgdfD7MIYoif//u MMkFNtoE+6AoswtecyyHUZ0i6dPGa/4VaNDQv13NaY8hvloGtgu97LGdyrXw0d40loxadGgvr3ta sY1mZi1jboisaPfJ3jSOZpqxJ+xmw8dzcdpt9HzoBV579VlCQrwvUrNLHLy7I4kAvZpgHw2S5DUK WxifxMt3mpqUUZiMjEzT5bqJwdfEiez/b+/Ow6OqzwWOf8+c2bNOIDuQhO2wh6UoYsWCVbGu1KXq VrVeb6lw65VSinWr9WmvXvtc2yutdWntJkrrhl5UCooroAjKfkhky0L2ZZJMZj/3jwkhEwQmECZD +n6eJw9k5jcz7/yemXdOfued99fKnto2clJsne0FHBYVs0nhr5vL4hbHutK6yJ6wHUswiqIwKM3B lopmGj1+IPLFp4/1A2x6+gHeevweUgZkc8f/vkTx7OtY9+WRbWw3Hoh88erwloWKopCbage8uZ0D jblLkxAiNmfUEfxXaflGUBSO6h1jURXq2wJxi6PZG8TWrb/O4ZLN9kAYF/DKq6/y6uIf4Gtp4mtz bmX2bf+JarHS6AnQ7D1yEtjtC2L5il49JkXB06U9qhBCHM8ZfwRfnJuG1WyKgolJGwYef5iZw2Lf pPpUTc5Po6k9GHVZqy+y+5Tqa+GGG27gtuuvlyl9ADc89gJnffs2VEukNr+pPcCU/NTO243PTaE9 EI5gaOYPhlGAApe0/BVCxOaMT/DldjOLzh9GQ3uASreXmlYfFc1ehg5wcvPUQXj8QdztAdzeAMFj 1LWHwgZub+CYde+Hrz/W7QGmF2UwdlCTffUe6tr8VDR7afAEKKj/nAnjx7FixQp+9rOf8eY7H2DO GUZ1W5C6Nj/76j0UDXAyvejllnxjs1OYPCiNfQ3t1LT6qGz2UtHs5frJ+Z3LNkllcSL9lltcPzmf Aw0eVnxRiScQZlRmEj++YBh/3FjG23tq2d/gldlmZlxOCt+ZlM9FlzM7K2Q2HGjkxS0VNHuD2C0m LhudzexRWZq6WqJ/sLeel7ZW0elL4rSqXDUuhwtGDDyqwsZhUVkyazqbDzax7ZAbq6+Vt37/Cxb9 /QUmTZrE6tWrKS4uBuDnGcm88P42bK5kxuemcvaQ9Kg+NmbVxIJzC9IS0cymsiaSbGamF2YwvAd9 bIQQol8k+L9sKmdfQzvfHp+LalloaAtw92u7yE22UuH2keaw4A+G2VHVyp8+LcNiUpq1lpPth9z8 7qP9ZCZbGeJy4AuGWL6IApMJZo/KZINZE09vOEhuqh2X00F7IMSfNpVhURXOH3Z0RY7dojJjaAZV m9awcOFCGhsbeeCBB/jpT3+KxXKkFUJ+moNvDU9h9OiiYz4ns2pi6hAXU4ccvyWyEEIcyxm/RNPo 8fPx/kYKXA7MaqSHTMgwaPMFOdDUjsNiwqaaSLGZ8QUj/WpW7qjGMAz+b2c1qXZz57KHzaySn2bn

jZ01hMlGr++sZmCStXPHJ4dFJTvZ1nn77iorK7nqqquY03cuBQUFbN68mQcffDAquQshRLyc8Qm+ 2RuMVNF0qO33BkOYTOqtvhBWNfophq2DxvYAwbBBVauPJGt0j3ab2USbP4qvGKK6xUeSLfr6JKtK fZs/gr+NYRq8++yziBkzhtWrV/PYY4+xfv16aTUqhOhTZ3yCz0q2oioK/uCRE6ApNquBcJisFGvn M3HiRLZt28aiRYswm/vF6pcQ4gx2xid4p9XMnAk5IDW10+Dx0+YP4vYFKMxwkptgwxcyaPAEgG31 k2RVURWF70zMQ1EULh2TjckEFc3tePwhalp8NHoCzJsUuf7qCbn4Q2EONy3CoQAADzBJREFUub14 /CGqWny0+YNcW5yHx+Ph3nvvZezYsXzyySc8+eSTvPPOOwwfPryvp0QIIYAEPsnqDYR4c3cN60rr CRkGXy/K4LIx2V9ZJnjRiEzKGtv52+YKmr0Bzhrs4tdXjaPa7eP1ndWU1LbhtKpML3Jx+Ziczo6O +WkO7r9Q463dNei1rWhZyXxrdBYjMiP7qhZmOHnqlo03d1fzZb2HCbmpXDlqi20freHCBQspKzvl yBmXMeO7d5Nz1igCYQPbGf+RKYToLxIywRuGwbKP9rP1kJvclEgXxbf1GvSaVu755oioTT8AXt1e xQd7G5g6OB2b2URNq48n1x/goYs1Zo08fn+ZvDQ7tx1nj9jBLgd3nFMIQEVFBf9xx028/PLLZBWO 5JIHnqV46jmEDYOXtlaxt97DXTOGStdHIURCSMjjzb31HrYdclPocmC3qNjMJgpcTvY2eNhZ3RI1 tsUbZNXuGqpcDpltZiyqifw0B62+IB/ua+iVeEKhEMuWLWP06NGsWrWKhT95qlsf+qtnnXMuNrMl h0WIKMPBF5Vu6RUjhEgYCZngazv6tnc/EjYpcKjZG3VZfUcjL3O3o/oUm5kv6zynHMu7777L5MmT WbBqAdOmTWP79u1cdON8zBZr1DhFUVCIdIIUQohEkJAJfoDTAihH1ZobBmSn2KMuy3BaMIyjt8Jr 84UoyDj5vi2lpaXMmTOHWbNm0dzczlsvvsjbb7/NsGHDyEm1dmz11zU2AxQYmGQ9xj0KlUR8JWSC HzYqiRGZSRxsbCcOChMMhylraicvzc7YnOiNp1PtFi4YMZD9DR68qRBhw6C6xYfVbOK8Lv1dYtXc 3 MzixYsZM2YMa9as4Ze//CW7d+/muuuu6/yLYnxuKrmpNsqa2gmFDQKhMPsb2xmVIXxSu0AJIcTpk|AnWU0mhTunF/Cj13fw503lGlbB14dmsOBcDav56M+k70zMo8UXYPnmCty+IFMGpfOjbwxjYA92 PwoEAjzzzDPcf//91NfXc9ttt/Hwww+Tk5Nz1FibWeXHM4fzj62H2HCgEVVRmK1lceW47B6fYC1v auefe2opa2pnxMBkLhgxkKwU2bVJCHHqEjLBh8NhfvT6LtaW1uOyqyiKwicHm1j48nZevGkK5m5J /sN9DXy8v5ExOSnYzCaa2oP85bNy7rlgBEkn6L5oGAavvfYaS5YsYc+ePcyYMYPHH3+cSZMmHfd2 LqeVf5tWwPfOGoKiHH2+IBYlta088k4pJkUhxWZmTUktH+yt594LR5KXZj/xHQghxHEk5BLN5opm 1n1Zx6BUOxIJNIxOK4PS7Hxe6Wb1npqosd5ApEFYfpqd7BQ76Q4rhRIOKpq9bDjQeNzH2bhxIzNm zGDOnDmoqsrKlStZt27dCZN7VyaTclLJ3TAMlm+pwGFRyUuzk2I3MzjdQTBssHJHVY/vTwghukvI BP95hRuI7i9jUhQUDLZ0XHdYdYuPYNjAZo7uGZNiM7O9Krqk8rB9+/Yxd+5cpk2bRkIJCU8++SRb t27l8ssvj1sNe9ClllNmOKMbkQ1Msh4zbiGE6ImEXKLJPNbauaKQmRxdpZJsMxMOG4QNl2rbPm8w TFa3+6mgguLRRx9l2b|lgKrKfffdx+LFi0l|iT5xGw+qEondGwzj6NlL3hMlMUAgcYQQvSAhj+Av HjmQAUIWqlp8hl1l8q5r85NsNfPt8blRYwckWfnakPTOihYAtzdA2DA4b2ikiqayspK77rqLoqli fvOb33DjjTdSUILCQw891CfJHSJ/kVw6JovKZm/nTlLeQlj6Nj+Xjsrqk5iEEP1LQh7B261m/jh3 Ine/toPSujYMIl0jrxqXw6pdNQwd4MTt9fNOaQN769vlcFpls1koa/RgMplwOS3cdV4RtNaz8L5H ePrppwkGq9x8883cc889p9wQrK7Vx4aDidS1+Rmdlcyk/PSvrO45kYtGZuENhHlzd6T/vE018d2p g5k6JP2U4hNCCEjQBA8wOjuFN++Yxr76Nj6vbGbl9mr02ja2HWphU1kTje0BPP4gKApmRSHVbuba 4jx+PGs4bfXVPPrwUp599InC4TC33HILS5cuZejQoacc157aVh5790uCRhirqvJuST0jBtaxaOaw qKWWWKgmhTnjc7lkVBZub5B0h+WkPiiEEOKrJGyCPywvzc5/r/uSzGQbTqvaWRnT4AngcphxWFS8wTBWs4kX125qz99+waqXV6AoCrfeeitLly6lsLCwV2IJhw3+sPEqTqtKuuNIGWNJXRsf7a3nm9rl okWLKCgo6NVY6j1+alr9DHFFt0BwOS1sLGs66QQvhBCnQ8IneIvZhGFE6sYVwGxSMCkKBmECez6h esNL+Mp2YnKm4pp1Mw8tuZsFFxWfllisqqkDjqrYCYTCJFvICFwIkVqSPsHnp9kpyHBwyO0IN9VO rtrOgff/TmDDGwSaq1HTs0me/QMyz7oEZ1ISc6ePOm2xpDksTMpP5YtKN4PS7CiKQiAUpsUXYubw 4/edF0KleEv4BK8oCvPPGcLdTyznuZXLObjpXYxQiORhEzFm3YIy8IycVitJSRb+/ZxCdlS3UBQI MTjdQVN7gJ3VrRiGwejslF6pL79I6mCWfbgfvbY18i1W4LriXlak21m/v4Fg2GBkZjLZ0k9GCNHH EjrBV1RU8Pzzz/PUU09RWlpKuiuDm2+fzw/v/D55hcMpb/LwZYMHfyDMB3sb2FTexKflTShAgctB eVM7wY6uvqqicMvUQcwYNvCUYkq1W/jJBcMpb/LS6g+Sn2Znf4OHxW/s6qxnVxSF6ybmcsmo7FOc ASGEOHkJI+Crq6tZsWIFy5cvZ/369QCcd955PPjgg1x99dXY7UeqV7JTbEzKT2fpql3YLCZyOxp0 eXxBnt9cwXlDMyjKiLTv9QVDPPdpOWOyU3rUZfKrKlrC4I4TrR5/kN9+tJ90u7mzsVkgFGbFlkrG Zad2jhNCiHhLiATvdrt55ZVXeP7551mzZg3hcJgJEybw8MMPc80116Bp2jFvW+n2UtutsqWhPYDJ BNWtfoa4lgneZlYJGQY7qlo4f3jvLZ+U1nnwhQxyunSttKgmFEXhi0q3JHghRJ/pkwQfDAbZtGkT a9euZe3atXz88cf4fD6KiopYunQp8+bNY+zYsTHd1zF7g0U2WIoeS3QDs9NN9t4WQvSluCf4K664

tecCMCIzCZvZRKsvSHLHUbw/GCZsGBTnpfbqYwkhRE/EPcHv2rWLefPmMWvWLGbOnEIm5qmVF5pM CvOnF/KrdXs50ODh8E6pN00ZxMEGD/sblhtvqyaFW6cOPuX19+4cFpU7pxfwxEf7qWsLAAYmBa6f nM+gdFmeEUL0nbgn+JKSkl6/zyEuJ49cNpodVS14AiGKMpzkp9lp9gbZVd2CYcCo7GQynKenDe/4 vDQeu3wsO6tbOsokk47d8lgllelklU6y9ga7RWXK4OgujOkOC+cU9nzj7ZORYjdzdoErLo8lhBCx kNaFQgjRT0mCF0KlfkoSvBBC9FMxrcFrmjYb+DWgAs/ouv5f3a5XOq7/FuABbtF1fXMvx9qrWn1B Wn1BBiRZsajyOSeE6H9OmOA1TVOBZcCFQDnwqaZpK3Vd39ll2CXAil6fs4HfdfybcPzBMC9sqeC9 vfVggMOqMm9SHucWDejr0IQQolfFcuh6FlCq6/peXdf9wAvAld3GXAn8Wdd1Q9f1DUC6pmm53e8o Eaz4ooK1JbXkpdoZ7HLgtKj8fv0Bdle39HVoQgjRq2JJ8PlAWZffyzsu6+mYPtceCLGutJ7BLgdq R8sCp1UI2Wrmn3tq+zg6IYToXXGvg//ss8/i/ZBR5g+HyGmCLgYCNMY9tr6ei0Qic3GEzMURMhen JpYEXwEM7vL7oI7LejqGKVOmSPstIYSIk1gS/KfACE3Tiogk7bnA9d3GrAQWaJr2ApGTq826rh/q 1UiFEEL0yAnX4HVdDwlLgLeBXcAKXdd3aJr2fU3Tvt8xbBWwFygFngZ+cJriFUllESPFMlwTj+qB /lgzf7|imlsbgCVEWtW3APN1Xf8i7oHGwYnmosu4gcB6YK6u6/+IY4hxE8tca|r2DeBxwALU6bp+ flyDjJMY3iNpwF+BIURWHB7Tdf2PcQ80DjRN+wNwGVCj6/q4r7i+x7mzV7/h06Vm/hJgDDBP07Qx 3YZ1rZm/g0jNfL8T41zsA87XdX088HPgqfhGGR8xzsXhcY8Aq+MbYfzEMheapqUDvwWu0HV9LHBt 3AONgxhfF3cCO3VdLwa+AfxK07TT0xa27z0HzD7O9T3Onb39Fc5+VTN/ik44F7quf6zremPHrxul n|zui2|5XQAsBF4CauIZX|zFMhfXAy/run4QQNf1/jofscyFAaR0HL0mAw1AML5hxoeu6+8TeX7H 0uPc2dsJvt/UzPeCnj7P7wFvntaI+s4J50LTtHxgDv30L7ouYnldjARcmqat0zTtM03Tbo5bdPEV y1w8AYwGKoFtwA91XQ/HJ7yE0+PcKU1YEoCmaTOJJPglfR1LH3ocWPlv/ObtygxMAS4FLgbu0zRt ZN+G1GcuBj4H8oCJwBOapslemDHq7QTfazXz/UBMz1PTtAnAM8CVuq7Xxym2eltlLr4GvKBp2n7q GuC3mqZdFZfo4iuWuSgH3tZ1vU3X9TrgfaA4TvHFUyxzcSuR5SpD1/VSluetRsUpvkTT49zZ299k IZr5I044F5qmDQFeBm7SdX1P/EOMmxPOha7rRYf/r2nac8Abuq6/Gs8q4ySW98hrRI5UzYCVyPvk f+laZXzEMhcHgQuADzRNywY0liXZ/4p6nDt79QheauaPiHEu7gcGEDla/VzTtE19F05pFeNc/Eul ZS50Xd8FvAVsBT4hUj64va9iPl1ifF38HJiuado2YC2RZby6von49NI0bTmREmFN07RyTdO+d6q5 s9fr4IUQQiQGOckqhBD9ICR4IYTopyTBCyFEPyUJXggh+ilJ8EII0U9JghdCiH5KErwQQvRTkuCF EKKf+n/yLuzWC+zS6gAAAABJRU5ErkJggg== " >

gvfeew+309IVsri4mDvvvJNrr72Ws88+u8fdHHNT7GSnWKIv83eeRHU5LIQqqjGZNxBCNSmMzkru

Iteration 12: log-likelihood = 244.83, improvement = 10.77

oiRhtot0uKbgdnp6Ov/3f/9H9+7diYqK4q233ili

IoIffviB5ORk5s2bR8OGDcvV3/sifMmxFH/aMNqceGIUhBTWdQ321OCjUxXL6AFIy8hi40djeeGF F2jXrh2rtu4kwNCimKGZ3SkiANH+Nz94JSMjI3M1IVbgBUHgyy+/RKIU8sADD/Dss89y8ODBojTK y3jpVIxtV5P/b+/Oo6Ms7wWOf9/ZZ7JNFiYJIZBAyMseZJMSKSpVQOSC3qoY1II9x4p71Ra3661y jle4WGtPbav0Cio9CqVCQYOiqbggMWDcQvBlCWvlvk4ymf29f0ylCesEJpMhPJ9zcmRmnmR+85yZ 37w+7+/9PfVtHo43O6lucVHe5GRwooUbhsXxzsZN3PfAQ4zJycFmszF//nyKi4tZsmQJ+/btY9u2 beQtuA2vRn9K3fsJPr9Ks9PTsXXf6UzJTGBwooWDdQ5qW92UNzmpd3hYNCkdXfvFWTqthkUT06l3 eKhq9VLb6qaos|AtT93KjoltLF++nPz8fKaOHMy4AXEcrG+jusXF8SYn5U1O8salEW2MuNMmgiBE qljOFjk5OSiKwtKlS3nxxRd57bXXiI+P58orr2T69OkMHjwYVVXR1jcwrGlfRfvLcbW2ECe5qGwt Z+B9xfh9XiSdgZjM0Yy75V5uv+E67r3xmo5eN4WHG1j7dTlNTi8mvYbrhyczc5qNTXtL4M/K6vjn d5XYXV4sBi3zRqUwfWjSKevyZr2WJVdn8eWRRr6vaCbJYuCKwQmntDrlSYtj6SyZtz75jh0frWPr X55nwlABfLDpcy6//Hlq8K17X24GX5c3setol1FGHVMyEsqKUR8bQRAuDRGd4CFQVbN8+XleeeQR CgoKOn42bNhw2vEarQ63|ZpaawoZ1+ShDsyhX/YYvJlenUZDkcfCmEONXD20HyUVzfxl+yH6RRsY 2F7R8tbX5Wq0MHNYMruONrKy8AipsSbiLWbaPD5e33UUvVZi2pBTK3JMei3ThiQybcjZN/s2uFt4 / 49PUIBQwLx581i1ahVWq7XLGJ1Ww8SB8UwcePaWyllgCGcS8Qn+hOTkZPLy8sjLy0NVVcrKyqip qaHZ6eGvX9UwKCUJS3QsOqOJmhY3H+6tQa+ViDHqOi4kamzzoNdIbNpdxVVZSbxXWkWsSdex7GHU aUmLM/FuaTXXZNvYXFpFUpQBiyHw+2a9luRoI5t2V/HTwYnn1eM9Pz+fO++8k/r6en7/+9/z0EMP 9ViveEEQLm0RuwZ/NplkMWTIECZPnkz2mPHEDxhMXFlyelOg/NDp9aHTSLS4fBi0XV+iX1VpaPPq 9atUtriIMnS9cMmo09Dq9uLy+qiyu4gydn08yqClrtV92v42Z9Pa2srixYuZPXs2NpuNdevW8etf /

1okd0EQesxFmeA7s0Ub0EoSbu+PJ0BjjHo8fj+2GEPHrktg+w+SREa8GZ1GYrgtmnpH11LKZpeX IIhA+4DsftHUn1RqWe/wkIUU1a2LjYqKihq3bhyvvPIKizzyCEVFRciyfL4vWRAEISqXfYK3GHTc MCaFo41t1DvctLq9NLs8ZCRYSI014vKp1Ds81LS4iTJo0UoSt4ztjyRJzB6RjEYD5U1tONw+qu0u Ghwebr0s8Ph/jknF7fNT0ezE4fZRaXfR6vZyU6crU8/G6/Xy7LPPMmXKFNra2igoKGDFihWYTKYe nhVBEIQIXoN3enxs+aGabfvr8KkqV2QmcP2I5NOWCV47tB9HG9r4e3E5TU4Pk9LjeWneKKqaXWwu rWJfTSsWg5YpmfHMGZHS0dExLc7M09flvP9DNUpNC7ltmuuG2xjaL9AyICPBwn9fK7PlhyoO1DkY kxrLrGE2MhMt2J1e3i2t4vODdei1Gq7KSmTmMBtGXWBJp7S0llULF7Jz507y8vJ4+eWXTzmRKgiC 0JMiMsGrqsrL2w/xXUUzqTFGJEniA6UapbqFJ342tMumHwAbSyr5rKyeielWjDoN1S0u/rrjMM/O kLk6u99Zn6t/nlk7z7JHbHq8mbt+ktHlPo/Pz4pt+znS2EZKjAm/qvLPPSr2wwAADqNJREFU7yop q3Nwf+4gXnrpJZ588kliYmJYu3YtN99883nPhSAlwvmKyCWasjoH31c0kxFvxqTXYtRpGBRvoaze QWmVvctYu9NL/g/VDIo3E23UoddqSIsz0+Ly8vnB+h6Jr6TCzuGGNgbFWzDqNJj1WjITzHz+zR5y p13Fo48+ysyZMykpKRHJXRCEXhORR/A17X3bT64w0UhQ0eTs2IgDAnuvAh1Xi54QY9RxoNbRI/GV Nzm79|NRVZXi9//B+688j1GvZfXq1dxxxx2iOkYOhF4VkOk+0alHAleSSl0SKSTHdD1BmWDRo6qB dgKdN/RudfkYlNAzfVtSYg3tW/1Bc00lm//4NPt3fkrqqEmsffN1po4d1iPPKwiC0B0RmeCHJEYx tF8U+2pa6B9nQpKgotlF/zgTl1O6blUXa9lzfWgS7/9QTVqcCYNOQ02LG4NOw9TMU7fTC4XRqbHY LBry17zCN+tfQVX9TPzFb7nhtju5lie7R55TEAShuylywWs0EvdOGcSjm3fzxq5jqKrKFYMTuC9X xqA79bTBLWP7Y3d5eKu4nGaXl/EDrDx65RCSoo09Et/Owh289+RiSneXkD7up0xZtIS5U3KYOyq5 28syxxrb+HBvDUcb2xiaFM30oUnYYnombkEQLi0ReZLV7/fz6OY9FOyvI96k|dGip+hII/e/U4LX e2pHx88P1vPFoQZGpMQwbUqiXr/Km18do9V19s1CuqupqYm7776bqVOn0mIvZuPGiRws+pi37p3F rePSsBi69325r6aF332gsONQA01tXj7aV8PvPIA43uQMadyClFyaljLBF5c3se1ALQNiTSREGYm3 GBgQZ+Kb481s3VvdZazTE2gQlhZnljnGhNVslCPBQnmTk8LDDSGL6d1332XkyJGsXLmShx9+mNLS UubOnYtWqzmvk6mqqvLW1+WY9Vr6x5mIMellt5rx+IU27a4MWdyCIFy6IjLBf1PeDNCIHYBGkpBQ +br9sROq7C68frXjAqMTYow6Siq7llSejwMHDjB37lzmzJmD1Wplx44dvPDCC0RFXVjrXq8aKAdN sOi73|8UZQh|3IIqCBGZ4Pudae1ckujXvjvSCdFGHX6/2IHVcoLT68d2AWvwdrudxx57jBEjRIBQ UMBzzz1HcXExkyZNOu+/2ZIWCsTuPGnJyeHxkRhlOMNvCYIgBC8iE/yM7CQSowxU2l341UDyrm11 E23QcePo1C5jE6MMTBho5WhjGz5/e+mi04NfVZk6uPtVNH6/n9dff53s7GyWLVvG/Pnz2bt3L48/ /jgGQ+gSr0aSmD3CxvEmZ8dOUk6Pj7pWN7OH2UL2PllgXLoisorGZNCxav5YHv7XbvbXtgIS6Bo5 b1QK+XuqGZxoodnp5t/76ymrayXBoifQqOdogwONRkO8Rc9DUzNP2U3pXAoLC3nwwQcpKipi0qRI bNy4sWOXpc5qW1wUHmmqttXNcFs0l6VZT1vdcy7XZttwevxs+aEan1/FqNXwi4npTBwoetYlqnDh IiLBAwxPimHLXZM5WNfKN8eb2FRShVLTyvcVdnYdbaShzYPD7QVIQidJxJp03JTTn99enUWCxdDI IlYjccPoVGYNs9Hs9GI168/ri0IQBOF0Ij6b9I8z8eHeWvpFG0m3mqlpDbQmqHd4MOu1JLQnRYNO w4aSSqrsrqCTe3V1Nffccw9jxoyhoKCAZ555BkVRuP3220+b3P1+lde+PILFoGWq1UJKjJHMRAv7 alvZXIZ33g/RpNdiizGK5C4IQkhFfEY51ujE6fFjMWjxgygVdhdunw8J8LavuRu0gd2bAD49cO5E 63Q6WbZsGVIZWbz66qssXryYAwcO8PTTTxMTE3PG36tzuKlucWM1d618ibfo+f]o4/m/SEEQhB4Q sUs0|xh1GlO1UDcuATqNFGi0|f3YjExV4USvsaizXGzk8/IYu3YtTzzxBlcPH2bOnDksX76cYcOC 6x1j0GpQCWz717nZmMfnJ9rQveUZQRCEnhbxR/BpcSYGJZiptLuQJInMBAtajQZUFQ2BxO/2BU5Q mnQaZo84tQLF4/GwevVghq8fzoIFC7BarXz00Uds2rQp6OQOEGfWc1laLOVNTtT2skyPz4/d5eOq rLP3nRcEQQi3iE/wkiRxb24GtmgjhxscWAwakiwGRqfG4VVVGpyBdqRmvYa7f5LB7io7RxocqKpK RX0zjy5dwcDMISxatlioqCjWr19PcXEx06dPP694Fk5MJysxisMNbRxpbKPS7uLmnFQGWk3sOFTP Z2V1VNIdoZwCQRCE8xLxSzQQuPDpmRkyRxrbaPP4GGg10+L2cazRwYF6B26Pn8/K6tl1rJGdxxrx OtuoLdzEZ+v+j7bGWpKyRvGz3/yGp+6az7QLPNKONel5bHoWxxqdtLi9pMWZOFTv4Dfv7umoZ5ck iZvHpjJrWHloXr4gCMJ5uSgSPATaFmQkWDpuRxl1JMcYuSzNyuP5ezDqNUR5mvhy4xt8teUfuFqb SRkxgZ8v+V8yx07G7fPz+q5yRqbEXnCXSUmSSI8P1Ng73F7+vP0QVpOOqPb9Yj0+P+u+Ps6o5NiO cYIgCOF20ST4Mzne7GTvnlIObv073297D9XvI2PSdLw5sxk9YTKD0wMXDRI1Wnygyu5KO9OyQteO d3+tA5dPJaXTZuD69gZk3x5vFgleEIRec9EmeFVV+eSTT1j6P8/z760foDeamXDdLUy+cSGtpkQ+ K6vj5Gp4ia4NzHqa2LFPEITedNEI+KqqKtasWcPq1aspKSnBZrMx9bb7yf7ZTQxICVTQGFxefNCI MZnT40OrkRhuiw5pPEP7RWHUaWhxeYluP4p3e/34VZWc/rEhfS5BEITuuCgSvNvtJj8/n1WrVpGf n4/X62Xy5MmsXLmSBQsWUONUeWFbGYfrHZzoKXn7+AEcqXdwqD6w8bZWI7FoYnrld3ky67XcO2UQ

f9p+iNpWD6CikSBvXFq3e+ElgiCEUsQmeJ/PR2FhlevXr2fNmjXU1taSkpLCww8/zMKFCxk+fHjH 2IFmWHb9cHZX2nF4fGQmWEiLM9Hk9LKnyo6qwrDkaBlsPdOGd3T/OFbMGUlpIR2vXyW7X9SZWx4L giCESUQleLvdztatW9m8eTPvvfcetbW16PV65s6dy6JFi7j22mvR6U4fskmvZXx61y6MVrOen2T0 zMbbJ4sx6bh8UHxYnksQBCEYvZ7gKyoq+Pjjj1m/fj35+fm4XC7i4+O57rrrmDNnDjNmzMBqFe1z BUEQuivsCf7bb7/liy++YPv27Wzfvp1Dhw4BkJqayq9+9StuvPFGcnNzz3ikLgiClAQn7Fl07Nix AKSkpJCbm8sDDzxAbm4uEyZMOG2LXkEQBOH8BJXgZVmeCbwEalG/KYry/EmPS+2PXwc4gIWKohSf 7m+9+eab50bmkpGR0dENsje0uLy0uLwkRhnQa8UXiyAlfc85E7wsy1rgZeAa4BiwU5blTYqilHYa NgsY2v5zOfCX9v+e4rbbbrvQmC+I2+vn7a/L+aSsDIQwG7Tcell/cjMTezUuQRCEUAvm0HUSsF9R IDJFUdzA28Dck8bMBd5QFEVVFKUQsMqynHryH4oE674tp2BfDf1jTaTHm7Hotbyy4zA/VNI7OzRB EISQCibBpwFHO90+1n5fd8f0ujaPj23760iPN3ds62cxalk26Phwb00vRycIghBaYT/J+tVXX4X7 KbtYnAWB0wSdJAE0hD223p6LSCLm4kdiLn4k5uLCBJPgy4H0TrcHtN/X3TGMHz9etN8SBEEIk2AS /E5gqCzLmQSS9nwg76Qxm4D7ZFI+m8DJ1SZFUSpCGqkgCILQLedcg1cUxQvcB3wA7AHWKYqyW5bl u2VZvrt9WD5QBuwHVgL39FC8qiAlQpCkE5tHh0ooa+YvdkHMxQlqCYFW9XZqsalo34Y90DA411x0 GjcR2AHMVxRlfRhDDJtg5kKW5SuBPwB6oFZRlGlhDTJMgviMxAFrgIEEVhxWKlqyKuyBhoEsy68B 1wPViqKMOs3j3c6dlb3Cp1PN/CxgBHCrLMsjThrWuWb+LgI1831OkHNxEJimKMpoYCnwanijDl8g 5+LEuGXA1vBGGD7BzIUsy1bgz8B/KloyErgp7IGGQZDvi3uBUkVRcoArgRdkWe6ZtrC9bzUw8yyP dzt3hvoSzi5VM3+BzikXiqJ8oShKQ/vNQqInp/uiYN4XAPcD/wSqwxlcmAUzF3nAO4qiHAFQFKWv zkcwc6ECMe1Hr9FAPeANb5jhoSjKpwRe35I0O3eGOsH3mZr5EOju6/wlsKVHI+o955wLWZbTgBvo o/9H10kw74tsIF6W5W2yLH8ly/IdYYsuvIKZiz8Bw4HjwPfAg4qi+MMTXsTpdu4UTVgigCzLVxFI 8Et6O5Ze9AdgySX84e1MB4wHZgMzgP+SZTm7d0PgNTOAb4D+wFjgT7lsi70wgxTgBB+ymvk+IKjX KcvyGOBvwFxFUerCFFu4BTMXE4C3ZVk+BPwc+LMsy/PCEI14BTMXx4APFEVpVRSIFvgUyAlTfOEU zFwsIrBcpSqKsp/AeathYYov0nQ7d4b6SIZRM/+jc86FLMsDqXeA2xVF2Rv+EMPmnHOhKErmiX/L srwaeFdRll3hDDJMgvmM/lvAkaoOMBD4nLwY1ijDl5i5OAJMBz6TZTkZkAmUZF+Kup07Q3oEL2rm fxTkXDwNJBI4Wv1GluVdvRRujwpyLi4JwcyFoih7qPeB74AiAuWDJb0Vc08J8n2xFJqiy/L3QAGB Zbza3om4Z8my/BaBEmFZluVjsiz/8kJzZ8jr4AVBEITIIE6yCoIg9FEiwQuCIPRRIsELgiD0USLB C4Ig9FEiwQuCIPRRIsELgiD0USLBC4Ig9FEiwQuCIPRR/w/7aJUVPpMykwAAAABJRU5ErkJggg== " >

Iteration 13: log-likelihood = 258.67, improvement = 13.84

ZrF27VrWrl3L999/D4DRaESv1yPLcgX/zImfHQ4H

Lper8n5NSBSayEQ8jdpgbNSMkBadwBAEAmjVKgJ1mmqfWx9oVSIyVMnYcXsIArXKClxBQaFhcdEF /v777+f+++8HIDMzk3Xr1rFt2zbcbrfPkVE4eXBIEAS0Wi1pnhDEiMa0aNGSQ+Uyu46ZSS+yYtBr +P/27ja2rbMK4Pj/+iWJ07y2K1Fe20Db03YbXQIIWhFs04S6skFBgmlrNNRpEgxsiE+o8AEktC9M GmKgrQiYoEIIqgommKbBQJPGCnSi67Yy2nBGyLLihmVp3bRxnRfbMR+u1zjRmlw39nVye35S1dp+u1zjRmlw39nVye3Dp+u1zjRmlw39nVye3Dp+u1zjRmlw39nVye3Dp+u1zjRmlw39nVye3Dp+u1zjRmlw39nVye3Dp+u1zjRmlw39nVye3Dp+u1zjRmlw39nVye3Dp+u1zjRmlw39nVye3Dp+u1zjRmlw39nVye3Dp+u1zjRmlw39nVye3Dp+u1zjRmlw39nVye3Dp+u1zjRmlw30nVye3Dp+HB8f2Se3zz0+DkVDTGRy1FeHqYmEuGNz+Y6iG2NRtrY3cHzoAh2NNTiOQzo7zdhkllvXzT933hhj /FbRk6xdXV309vbS29s777qR5CQ/OPwm8fPj1FbluKa2irqqCAOJi5ybyBCLhlIFQ3zpprWcGB6j O52lsynG6Hiak8NJcrkcm1rqS9JfvmdbJ0/8ZRAdSbqfYqXu2tJKV1MNRwYTZKZzbFhdR4vNkzHG VNiS7alptLqumm/vEE6NjjOeztLVFCM5ISU+mul/iRRT6WkODyR4OT7K0fgoDrCmOUZ8dJxMfqpv 2HHYs62Dj39qcS2SDTVRvn7bOuKjEySnMrQ31jCYSPG1Z/ou9bM7jsNdN7Syc2PLlp+5McZcuWVR 4MEdW7B25cwo3hXVEVrqq9na3sQ3nu2jOhqiNT+gKzWZ4ZevnOZj719Jd/4+k5ksB47G2dxSX/SU ybkcx6Ezf6I1NZVh/18HaaqJXBpsls5Oc+jVla5rabi0zhhj/Lbsm66HLkwwkpxiZe3M9ktiPE0o BMPJmZOz1ZEw2VyOEyWe89J/JsVkNjdramU0HMJxHI4PXZjnnsYYU17LvsBftp3e/YKl2WuZPcCs 30y7t40xlbTsC3xrfQ0t9VWcvThztN4ci5KFWYP]|t|ZwiGHTe+rK+njr1+9qupliORk5t|1U5lp pnM5trQ1zHNPY4wpr2Vf4EMhh73b1xJyHN5KpBhMpBi5OMW9PR2EgMGC6+7b1rno/fe5YtEwD25f w9hkhsHEOlOJFG+PTbD7Q+10NNn+uzGmcpbNSdb5dDXX8sidmzjx9hipdJbulbW0N9ZwfiJD3/AY uRxsbKmbtU9fSte3NfLop67I5PBYvk1yxeVHHhtjjE8CUeDBnefS0zI7CmNTLMpNa6/si7eLVV8T 4cY1zb48ljHGeLHst2iMMca8NyvwxhgTUFbgjTEmoDztwYvI7cD3gTDwpKp+Z87tTv72TwIpYI+g vILiWEsqOZkhOZlh1YoqomH7PWeMCZ4FC7yIhIEngE8AceCoiDytgicLlu0E1uf/3Aj8MP/3kjOV

mebgq6f588BZyEGsKsw9W9v4aPeqSodmjDEl5eXQ9SNAv6oOqOoUcBDYNWfNLuDngppT1ZeAJhFp nfuDlo|Dx0/z/L9HaGuoobM5Rm00zl+OvMW/hks7wsAYYvrNS4FvB/5bcDmev67YNRU3ns7yQv9Z OptjhPMjC2qrwtRVRfjTGyMVjs4YY0rL9z74Y8eO+f2Qs+xdB+5pggLXAJzzPbZK52IpsVzMsFzM sFwsjpcCfxroLLjckb+u2DX09PTY+C1jjPGJlwJ/FFgvlt24RftuYPecNU8DD4nlQdyTq+dV9X8l jdQYY0xRFtyDV9UM8BDwHNAHHFLVEyLygIg8kF/2LDAA9AM/Ab5cpniNMcZ45ORyuZL+wCD2zF8parter (Colored Colored CD7noBfbhjqofA/aq6nHfA/XBQrkoWLcNOALcraq/9jFE33jJhYjcAjwGRIEzqnqzr0H6xMN7pBH4 BdCFu+PwqKr+zPdAfSAiPwXuBN5R1eve4/aia2dJP+FT0DO/E9gM3CMim+csK+yZ/yJuz3zgeMzF m8DNqno98DDwY3+j9lfHXLy77hHgj/5G6B8vuRCRJmA/8GlVvRb4vO+B+sDj6+JB4KSqbgFuAb4r IuUZC1t5B4Db57m96NpZ6o9wBqpnfpEWzIWq/k1Vz+UvvoR7cjqIvLwu+jpgJAAAAd5JREFUAL4C /AZ4x8/gfOYIF7uBp1T1FICqBjUfXnKRA+rzR691QALIEECq+iLu87ucomtnqQt8YHrmS6DY53k/ 8PuyRlQ5C+ZCRNqBzxLQ/9EV8PK62AA0i8gLlnJMRL7gW3T+8pKLx4FNwBDwOvBVVZ32J7wlp+ja aUNYIgARuRW3wO+rdCwV9Biw7yp+8xaKAD3AHcAO4JsisqGyIVXMDuA1oA24AXhcROy7MD0qdYEv Wc98AHh6niLyQeBJYJeqnvUpNr95ycWHgYMiMgh8DtgvIp/xJTp/ecIFHHhOVS+q6hngRWCLT/H5 yUsu7sPdrsqpaj/ueauNPsW31BRdO0v9SVbrmZ+xYC5EpAt4CrhXVd/wP0TfLJgLVe1+998icgB4 RIV/62eQPvHyHvkd7pFqBKjCfZ98z9co/eEIF6eA24DDltICCG5L9tWo6NpZ0iN465mf4TEX3wJW 4R6tviYiL1co3LLymlurgpdcqGof8AfgH8DfcdsH/1mpmMvF4+viYWC7iLwOPI+7jXemMhGXI4j8 CrdFWEQkLiL3L7Z2IrwP3hhjzNJgJ1mNMSagrMAbY0xAWYE3xpiAsgJvjDEBZQXeGGMCygq8McYE IBV4Y4wJKCvwxhgTUP8HcvgR9xRhzEIAAAAASUVORK5CYII= " >

Iteration 14: log-likelihood = 272.91, improvement = 14.23

VDp93Ng3AxHIb/TZpP6Zf3j+/XAGjYq/DsrC4Q2Q

X+Mmv8ZFucPDxLPTyYhR5t8VCsXpc8a8ZD2adrFGZI7ele3lDlz+IDlxRv5/e/cXIlUZxnH8K7O7 uP5] FwtpbS0hfUwzi62kutCIUPtnQYEaRSGEltGIV3XjTYGRgRmVIETQIiUIUVkEZpCSbWmW9thiiUVkeZpCSbWmZWvhv0S0P9rkdHFGdly0eac9857p+PvAsjtzXnaeeTjn2bPveeY9Y0YM5sifRXbuO0qpBBNHDztt nj5NU9pHsOz2yezYd5TiyRITLhh69iWPRUQiyUWBh2Q9l86O01dhHNnazHWXDPzG2yGGD25i2sVt UV5LRCTE/36KRkREzkwFXkQkp1TgRURyKmgO3sxmAc8CBWCVuz/Zb/ug8vZbgN+BB9z9i5RjTdWx 40WOHS8yamgLzQX9nROR/Kla4M2sADwH3Az0AlvMbJ2776gYNhsYX/6aBjxf/t5wThRP0vXlXj7e fQhK0NpSYN5V7dwwrv432hYRiSnk1PVaoMfdd7v7CaALmNNvzBzgVXcvuftmYKSZXdj/FzWCNdv2 8tF3B2g/bzAdba0MaS7wwqYf+XZfuksYilhkLaTAjwF+qnjcW36u1jGZ++Ovv9nQc4iOtlYK5SUL hr QUGNbSxle7DmQcnYhluqL3wXd3d8d+ydMsuhSSywQVzgc4HD22rHPRSJSLPspFH+ViYEIK/F6gandColored and the colored ando+LxReXnah1DZ2enlt8SEYkkpMBvAcab2TiSoj0XmN9vzDpgsZl1kVxcPeLuv6QaqYil1KTqHLy7 F4HFwHpgJ7DG3b8xs4VmtrA87F1gN9ADvAQ8XKd4RUQk0KBTN49OSx575v+rgFzcCywhWar+KLDI 3bdFDzSCarmoGHcNsAmY6+5vRAwxmpBcmNkMYDnQDBx09+lRg4wk4BgZAbwGjCWZcVjm7q9EDzQC M3sZuA3Y7+6Xn2F7zbUz1U/4VPTMzwYmAfPMbFK/YZU98w+R9MznTmAuvgemu/sUYCnwYtwo4wjM xalxTwEfxI0wnpBcmNIIYCVwh7tPBu6JHmgEgfvFI8AOd58KzACeNrP6LAubvdXArH/ZXnPtTPsj nLnqmR+gqrlw90/d/XD54WaSi9N5FLJfADwKvAnsjxlcZCG5mA+sdfc9AO6e13yE5KIEDC+fvQ4D fgWK5JC7byR5f2dTc+1Mu8Dnpmc+BbW+zwXAe3WNKDtVc2FmY4C7yOI/dBVC9osJQJuZbTCzbjO7 P1p0cYXkYqVwGfAzsB14zN1Pxgmv4dRcO7UISwMwsxtJCvySrGPJ0HJqyTl88FZqAjqBW4GZwONm NiHbkDlzE9gKtANXAivMTPfCDJR2gU+tZz4Hgt6nmV0BrALmuPuhSLHFFpKLq4EuM/sBuBtYaWZ3 RokurpBc9ALr3f03dz8IbASmRoovppBcPEgyXVVy9x6S61YTI8XXaGqunWl/klU9832q5sLMxgJr gfvcfVf8EKOpmgt3H3fqZzNbDbzj7m/FDDKSkGPkbZIz1SagheQ4eSZqlHGE5GlPcBPwiZmNBoyk JftcVHPtTPUMXj3zfQJz8QQwiuRsdauZfZ5RuHUVmItzQkgu3H0n8D7wFfAZSfvg11nFXC+B+8VS 4Hoz2w58RDKNdzCbiOvLzF4naRE2M+s1swUDrZ2p98GLiEhj0EVWEZGcUoEXEckpFXgRkZxSgRcR ySkVeBGRnFKBFxHJKRV4EZGcUoEXEcmpfwDdKfwAHIhA2AAAAABJRU5ErkJggg== " >

Iteration 15: log-likelihood = 284.29, improvement = 11.38

PTq2Sx3mUuAnIAkYALxitVrFWpit1NYBvs1y5n8G

Iteration 16: log-likelihood = 289.94, improvement = 5.65



Iteration 17: log-likelihood = 290.39, improvement = 0.45



Iteration 18: log-likelihood = 290.41, improvement = 0.01



Iteration 19: log-likelihood = 290.41, improvement = 0.00

