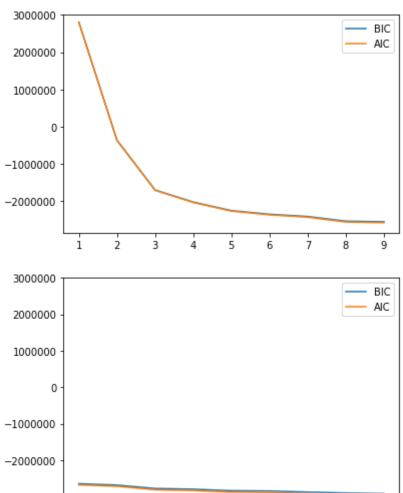
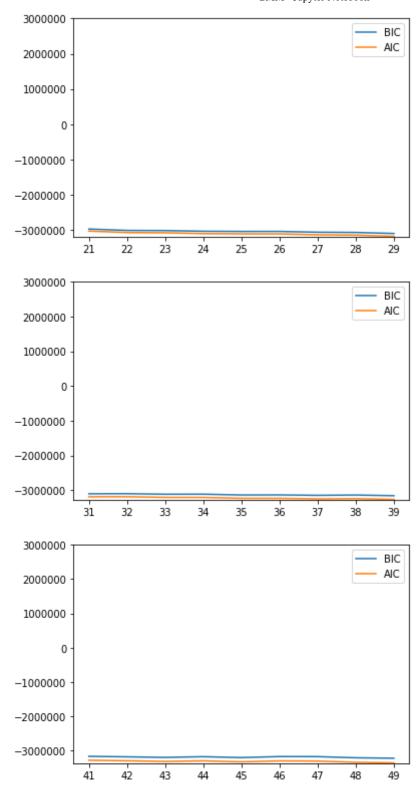
```
In [10]: # GMM on high-dimensional datasets
badcols = ["TEFF", "LOGG", "M_H"]
abundance_pos_df = master_df.drop(columns=[col for col in master_df.columns

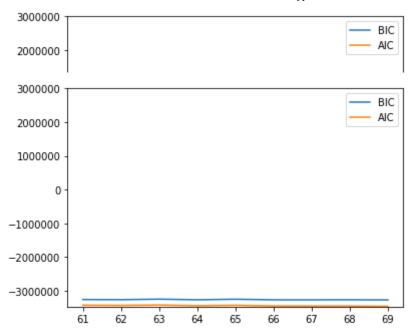
# print(abundance_pos_df)
n_clusters = 30

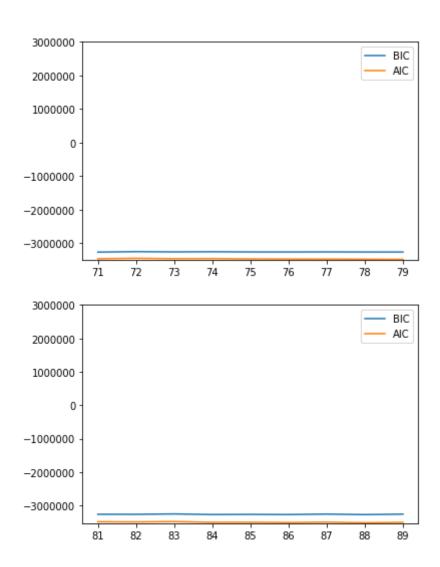
u = abundance_pos_df
n_estimators = np.arange(n_clusters)
clfs = [GaussianMixture(n_components=n, covariance_type='full').fit(abundan bics = [clf.bic(u) for clf in clfs]
aics = [clf.aic(u) for clf in clfs]

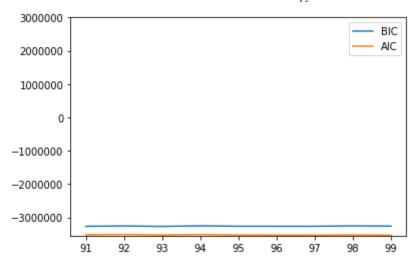
plt.plot(n_estimators, bics, label='BIC')
plt.plot(n_estimators, aics, label='AIC')
plt.ylim(None, 3e6)
plt.legend()
plt.show()
```

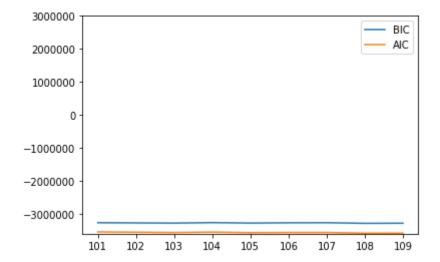












KeyboardInterrupt Traceback (most recent call las <ipython-input-10-cb10eef13407> in <module> 8 for i in range(20): 9 n estimators = np.arange(i*10 + 1, (i+1)*10)clfs = [GaussianMixture(n components=n, covariance type='ful 1').fit(abundance pos df) for n in n estimators] 11 bics = [clf.bic(u) for clf in clfs] 12 aics = [clf.aic(u) for clf in clfs] <ipython-input-10-cb10eef13407> in <listcomp>(.0) 8 for i in range(20): 9 n estimators = np.arange(i*10 + 1, (i+1)*10) ---> 10 clfs = [GaussianMixture(n_components=n, covariance_type='ful