

# BetaDat: A $\beta$ Cephei Database

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# BetaDat: A $\beta$ Cephei Database

## $\beta$ Cephei stars:

- Main sequence pulsating variables of spectral type B0 to B3
- Periods 2 to 8 hours
- Amplitudes 0.01 to 0.3 magnitudes
- Often Multiperiodic
- Long-lived low degree low-order p and g modes ( $\kappa$  mechanism)
- Sparse spectrum
- Slow rotators
- Rotational splitting small compared to frequency separation
- Solar metallicity
- 7 to 20  $M_{\odot}$

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## $\beta$ Cephei stars:

- Simple internal structure:

Convective core ( $\sim 0.3 M_{\text{star}}$ ) surrounded by radiative envelope

- Observation from the ground:

- Info on global parameters (M, R, age)  
+ info on overshooting parameter  
+ info on envelope differential rotation

# BetaDat: A $\beta$ Cephei Database

## Grid of stellar models: CLES

$M = 8 \text{ to } 20 M_{\odot}$  by step of 0.1

$Z = 0.010, 0.015, 0.020, 0.025$

$X = 0.60, 0.65, 0.70$

$\alpha_{\text{ov}} = 0, 0.05, 0.10, 0.15, 0.20$

$\sim 10\,000$  evolution sequences

## Oscillations: OSC

$\sim 100$  stellar models on main sequence

$\sim 1$  million stellar models

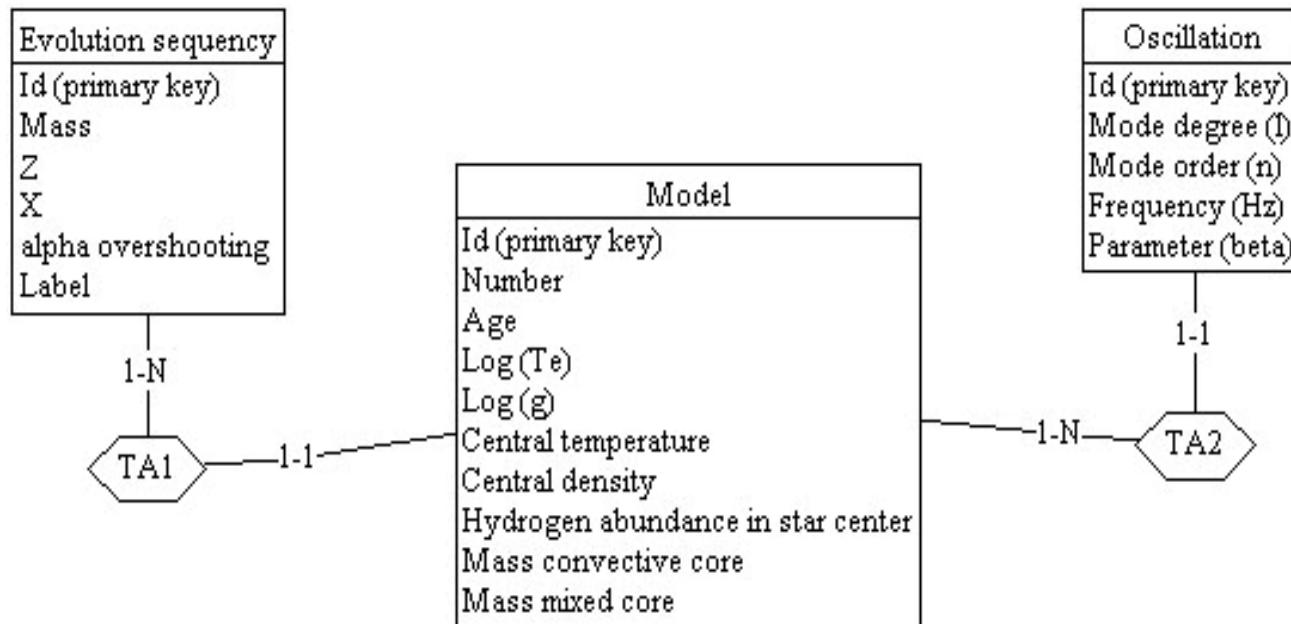
low-degree low-order modes

$l = 0, 1, 2, 3$  and  $|n| < 20$

$\sim 50$  million frequencies

# BetaDat: A $\beta$ Cephei Database

Database structure: 3 tables:



# BetaDat: A $\beta$ Cephei Database

Accessible through Web Interface

# BetaDat: A $\beta$ Cephei Database

Explore Database: list of sequences of evolution

Ref.	Mass	Z	a	X
M7.8_0.010_0.00_0.70_001	7.8	0.010	0.00	0.70
M7.8_0.010_0.05_0.70_001	7.8	0.010	0.05	0.70
M7.8_0.010_0.10_0.70_001	7.8	0.010	0.10	0.70
M7.8_0.010_0.15_0.70_001	7.8	0.010	0.15	0.70
M7.8_0.010_0.20_0.70_001	7.8	0.010	0.20	0.70
M7.8_0.015_0.00_0.70_001	7.8	0.015	0.00	0.70
M7.8_0.015_0.05_0.70_001	7.8	0.015	0.05	0.70
M7.8_0.015_0.10_0.70_001	7.8	0.015	0.10	0.70
M7.8_0.015_0.15_0.70_001	7.8	0.015	0.15	0.70
M7.8_0.015_0.20_0.70_001	7.8	0.015	0.20	0.70
M7.8_0.020_0.00_0.70_001	7.8	0.020	0.00	0.70
M7.8_0.020_0.05_0.70_001	7.8	0.020	0.05	0.70
M7.8_0.020_0.10_0.70_001	7.8	0.020	0.10	0.70
M7.8_0.020_0.15_0.70_001	7.8	0.020	0.15	0.70
M7.8_0.020_0.20_0.70_001	7.8	0.020	0.20	0.70
M7.8_0.025_0.00_0.70_001	7.8	0.025	0.00	0.70
M7.8_0.025_0.05_0.70_001	7.8	0.025	0.05	0.70
M7.8_0.025_0.10_0.70_001	7.8	0.025	0.10	0.70
M7.8_0.025_0.15_0.70_001	7.8	0.025	0.15	0.70
M7.8_0.025_0.20_0.70_001	7.8	0.025	0.20	0.70
M7.9_0.010_0.00_0.70_001	7.9	0.010	0.00	0.70
M7.9_0.010_0.05_0.70_001	7.9	0.010	0.05	0.70
M7.9_0.010_0.10_0.70_001	7.9	0.010	0.10	0.70
M7.9_0.010_0.15_0.70_001	7.9	0.010	0.15	0.70
M7.9_0.010_0.20_0.70_001	7.9	0.010	0.20	0.70
M7.9_0.015_0.00_0.70_001	7.9	0.015	0.00	0.70
M7.9_0.015_0.05_0.70_001	7.9	0.015	0.05	0.70
M7.9_0.015_0.10_0.70_001	7.9	0.015	0.10	0.70
M7.9_0.015_0.15_0.70_001	7.9	0.015	0.15	0.70
M7.9_0.015_0.20_0.70_001	7.9	0.015	0.20	0.70
M7.9_0.020_0.00_0.70_001	7.9	0.020	0.00	0.70
M7.9_0.020_0.05_0.70_001	7.9	0.020	0.05	0.70
M7.9_0.020_0.10_0.70_001	7.9	0.020	0.10	0.70
M7.9_0.020_0.15_0.70_001	7.9	0.020	0.15	0.70
M7.9_0.020_0.20_0.70_001	7.9	0.020	0.20	0.70
M7.9_0.025_0.00_0.70_001	7.9	0.025	0.00	0.70
M7.9_0.025_0.05_0.70_001	7.9	0.025	0.05	0.70
M7.9_0.025_0.10_0.70_001	7.9	0.025	0.10	0.70
M7.9_0.025_0.15_0.70_001	7.9	0.025	0.15	0.70
M7.9_0.025_0.20_0.70_001	7.9	0.025	0.20	0.70
M8.0_0.010_0.00_0.60_001	8.0	0.010	0.00	0.60
M8.0_0.010_0.00_0.65_001	8.0	0.010	0.00	0.65
M8.0_0.010_0.00_0.70_001	8.0	0.010	0.00	0.70
M8.0_0.010_0.05_0.60_001	8.0	0.010	0.05	0.60
M8.0_0.010_0.05_0.65_001	8.0	0.010	0.05	0.65
M8.0_0.010_0.05_0.70_001	8.0	0.010	0.05	0.70
M8.0_0.010_0.10_0.60_001	8.0	0.010	0.10	0.60

# BetaDat: A $\beta$ Cephei Database

Explore Database: Models on an evolution sequence  
age,  $\log T_e$ ,  $\log g$ ,  $T_c$ ,  $\rho_c$ ,  $X_c$ ,  $M_c$ ,  $M_{mix}$

BetaDat : BetaCephei Database									
Explore database		Search		Search by SQL request		Help		Administration	
Evolution sequency: 8.0_0.010_0.20_0.70									
Number	Age	Log Te	Log g	Tc	rhoc	Xc	Mnc_no_over	Mnc_over	
0	0.00000e-1	3.62667e+0	1.22821e+0	5.26937e+5	5.35530e-5	7.00000e-1	1.59071e+34	1.59071e+34	
1	5.50165e+1	3.62864e+0	1.25810e+0	5.45174e+5	5.93123e-5	7.00000e-1	1.59071e+34	1.59071e+34	
2	1.10666e+2	3.63046e+0	1.28584e+0	5.62655e+5	6.52044e-5	7.00000e-1	1.59071e+34	1.59071e+34	
3	1.71174e+2	3.63229e+0	1.31371e+0	5.80784e+5	7.17141e-5	7.00000e-1	1.59071e+34	1.59071e+34	
4	2.36624e+2	3.63411e+0	1.34156e+0	5.99478e+5	7.88664e-5	7.00000e-1	1.59071e+34	1.59072e+34	
5	3.07401e+2	3.63594e+0	1.36939e+0	6.18752e+5	8.67234e-5	7.00000e-1	1.59071e+34	1.59072e+34	
6	3.84076e+2	3.63775e+0	1.39724e+0	6.38665e+5	9.53702e-5	7.00000e-1	1.59071e+34	1.59072e+34	
7	4.66831e+2	3.63955e+0	1.42500e+0	6.59132e+5	1.04849e-4	7.00000e-1	0.00000e-1	1.59072e+34	
8	5.56322e+2	3.64136e+0	1.45274e+0	6.79901e+5	1.15339e-4	7.00000e-1	0.00000e-1	1.59072e+34	
9	6.53264e+2	3.64313e+0	1.48050e+0	7.01000e+5	1.26990e-4	7.00000e-1	0.00000e-1	0.00000e-1	
10	7.57936e+2	3.64493e+0	1.50817e+0	7.22390e+5	1.39901e-4	7.00000e-1	0.00000e-1	0.00000e-1	
11	8.71304e+2	3.64671e+0	1.53583e+0	7.44168e+5	1.54272e-4	7.00000e-1	0.00000e-1	0.00000e-1	
12	9.94075e+2	3.64850e+0	1.56346e+0	7.66362e+5	1.70284e-4	7.00000e-1	0.00000e-1	0.00000e-1	
13	1.12711e+3	3.65027e+0	1.59107e+0	7.89027e+5	1.88154e-4	7.00000e-1	0.00000e-1	0.00000e-1	
14	1.27119e+3	3.65203e+0	1.61861e+0	8.12198e+5	2.08104e-4	7.00000e-1	0.00000e-1	0.00000e-1	
15	1.42751e+3	3.65379e+0	1.64612e+0	8.35995e+5	2.30441e-4	7.00000e-1	0.00000e-1	0.00000e-1	
16	1.59723e+3	3.65555e+0	1.67360e+0	8.60377e+5	2.55500e-4	7.00000e-1	0.00000e-1	0.00000e-1	
17	1.78189e+3	3.65732e+0	1.70107e+0	8.85557e+5	2.83701e-4	7.00000e-1	0.00000e-1	0.00000e-1	
18	1.98321e+3	3.65909e+0	1.72856e+0	9.11617e+5	3.15552e-4	7.00000e-1	0.00000e-1	0.00000e-1	
19	2.20273e+3	3.66088e+0	1.75604e+0	9.38624e+5	3.51572e-4	7.00000e-1	0.00000e-1	0.00000e-1	
20	2.44272e+3	3.66268e+0	1.78354e+0	9.66719e+5	3.92482e-4	7.00000e-1	0.00000e-1	0.00000e-1	
21	2.70522e+3	3.66448e+0	1.81103e+0	9.95900e+5	4.39040e-4	7.00000e-1	0.00000e-1	0.00000e-1	
22	2.99286e+3	3.66628e+0	1.83849e+0	1.02656e+6	4.92221e-4	7.00000e-1	0.00000e-1	0.00000e-1	
23	3.30867e+3	3.66810e+0	1.86594e+0	1.05859e+6	5.53216e-4	7.00000e-1	0.00000e-1	0.00000e-1	
24	3.65660e+3	3.66994e+0	1.89338e+0	1.09228e+6	6.23584e-4	7.00000e-1	0.00000e-1	0.00000e-1	
25	4.04110e+3	3.67179e+0	1.92083e+0	1.12790e+6	7.05224e-4	7.00000e-1	0.00000e-1	0.00000e-1	
26	4.46776e+3	3.67367e+0	1.94828e+0	1.16578e+6	8.00595e-4	7.00000e-1	0.00000e-1	0.00000e-1	
27	4.94353e+3	3.67558e+0	1.97574e+0	1.20634e+6	9.12880e-4	7.00000e-1	0.00000e-1	0.00000e-1	
28	5.47686e+3	3.67753e+0	2.00317e+0	1.25015e+6	1.04613e-3	7.00000e-1	0.00000e-1	0.00000e-1	
29	6.07991e+3	3.67955e+0	2.03057e+0	1.29804e+6	1.20602e-3	6.99999e-1	0.00000e-1	0.00000e-1	
30	6.77209e+3	3.68166e+0	2.05802e+0	1.35147e+6	1.40098e-3	6.99999e-1	0.00000e-1	0.00000e-1	
31	7.58087e+3	3.68390e+0	2.08546e+0	1.41254e+6	1.64201e-3	6.99998e-1	0.00000e-1	0.00000e-1	
32	8.55182e+3	3.68631e+0	2.11271e+0	1.48487e+6	1.94257e-3	6.99995e-1	0.00000e-1	0.00000e-1	
33	9.77388e+3	3.68895e+0	2.13941e+0	1.57504e+6	2.31341e-3	6.99998e-1	0.00000e-1	0.00000e-1	
34	1.14495e+4	3.69189e+0	2.16496e+0	1.69144e+6	2.74294e-3	6.99975e-1	0.00000e-1	0.00000e-1	
35	1.41250e+4	3.69523e+0	2.19070e+0	1.82116e+6	3.25603e-3	6.99950e-1	0.00000e-1	0.00000e-1	
36	1.87517e+4	3.69920e+0	2.21681e+0	1.92531e+6	4.21780e-3	6.99933e-1	0.00000e-1	0.00000e-1	
37	2.56679e+4	3.70424e+0	2.21923e+0	2.05376e+6	6.30306e-3	6.99929e-1	0.00000e-1	0.00000e-1	
38	2.79945e+4	3.70619e+0	2.20664e+0	2.12347e+6	7.31965e-3	6.99929e-1	0.00000e-1	0.00000e-1	
39	2.95545e+4	3.70775e+0	2.19153e+0	2.18368e+6	8.15359e-3	6.99929e-1	0.00000e-1	0.00000e-1	
40	3.07908e+4	3.70920e+0	2.17519e+0	2.23903e+6	8.91341e-3	6.99929e-1	0.00000e-1	0.00000e-1	
41	3.20333e+4	3.71096e+0	2.15590e+0	2.30177e+6	9.78397e-3	6.99929e-1	0.00000e-1	0.00000e-1	
42	3.30897e+4	3.71272e+0	2.13826e+0	2.35985e+6	1.06065e-2	6.99929e-1	0.00000e-1	0.00000e-1	
43	3.40456e+4	3.71457e+0	2.12292e+0	2.41634e+6	1.14253e-2	6.99929e-1	0.00000e-1	0.00000e-1	
44	3.49829e+4	3.71663e+0	2.10962e+0	2.47552e+6	1.23069e-2	6.99929e-1	0.00000e-1	0.00000e-1	

# BetaDat: A $\beta$ Cephei Database

Explore Database: oscillation frequencies of a model

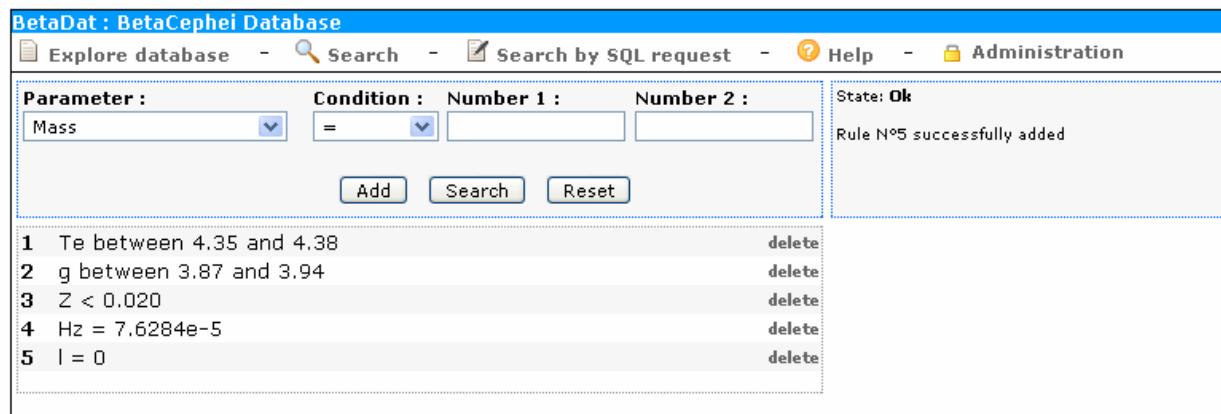
BetaDat : BetaCephei Database			
Explore database		Search	Search by SQL request
Evolution sequence: 8.0_0.010_0.20_0.70			
l	n	Hz	beta
0	1	1.09770e-4	0.00000e-1
0	2	1.41150e-4	0.00000e-1
0	3	1.74760e-4	0.00000e-1
0	4	2.09410e-4	0.00000e-1
0	5	2.45560e-4	0.00000e-1
0	6	2.83680e-4	0.00000e-1
0	7	3.22620e-4	0.00000e-1
0	8	3.61770e-4	0.00000e-1
1	-2	3.65380e-5	5.50520e-1
1	-1	6.81580e-5	4.88730e-1
1	1	1.17200e-4	9.67110e-1
1	2	1.56940e-4	9.68340e-1
1	3	1.91360e-4	9.67880e-1
1	4	2.26420e-4	9.69290e-1
1	5	2.63550e-4	9.71260e-1
1	6	3.01830e-4	9.74240e-1
1	7	3.41060e-4	9.77280e-1
1	8	3.80180e-4	9.80050e-1
2	-3	4.13920e-5	8.80850e-1
2	-2	5.94440e-5	8.79190e-1
2	-1	9.98360e-5	7.44610e-1
2	0	1.14180e-4	9.20550e-1
2	1	1.37030e-4	7.98020e-1
2	2	1.72100e-4	9.06420e-1
2	3	2.06990e-4	9.35930e-1
2	4	2.42930e-4	9.49480e-1
2	5	2.80820e-4	9.59190e-1
2	6	3.19490e-4	9.65680e-1
2	7	3.58520e-4	9.71350e-1
3	-6	3.37280e-5	9.42850e-1
3	-5	3.87690e-5	9.34840e-1
3	-4	4.39780e-5	9.49840e-1
3	-3	5.55150e-5	9.63410e-1
3	-2	7.70960e-5	9.63160e-1
3	-1	1.10570e-4	8.61910e-1
3	0	1.32480e-4	9.55850e-1
3	1	1.48440e-4	8.77480e-1
3	2	1.83380e-4	9.19280e-1
3	3	2.18940e-4	9.41120e-1
3	4	2.56070e-4	9.52740e-1
3	5	2.94560e-4	9.62080e-1
3	6	3.33920e-4	9.68480e-1
3	7	3.73190e-4	9.73560e-1

# BetaDat: A $\beta$ Cephei Database

## Search Database:

Send requests with constraints on any of these parameters:  
M, X, Z,  $\alpha_{ov}$ ,  $\log T_e$ ,  $\log g$ , age,  $T_c$ ,  $X_c$ ,  
with possibly error boxes.

It is also possible to request a given  
mode of oscillation, here an  
 $l=0$  mode with a frequency of  $7.6284\text{e-}5\text{Hz}$



The screenshot shows the BetaDat: BetaCephei Database software interface. The top menu bar includes 'Explore database', 'Search', 'Search by SQL request', 'Help', and 'Administration'. The main search panel has fields for 'Parameter' (set to 'Mass'), 'Condition' (set to '='), 'Number 1' (empty), and 'Number 2' (empty). Below these are 'Add', 'Search', and 'Reset' buttons. To the right, a message area says 'State: Ok' and 'Rule N°5 successfully added'. The bottom section lists five search rules with delete links:

1	Te between 4.35 and 4.38	delete
2	g between 3.87 and 3.94	delete
3	Z < 0.020	delete
4	Hz = 7.6284e-5	delete
5	l = 0	delete

# BetaDat: A $\beta$ Cephei Database

Search Database:  
Result = list of possible sequences of evolution

**BetaDat : BetaCephei Database**

Explore database - Search - Search by SQL request - Help - Administration

Parameter : Condition : Number 1 : Number 2 :

Mass =     

Add Search Reset

State: Request completed

Evolution sequences : 448  
Models : 224  
Frequencies : 224

Click here to see the SQL request

Ref.	Mass	Z	$\alpha$	X
M8.0_0_010_0.00_0.60_001	8.0	0.010	0.00	0.60
M8.0_0_010_0.00_0.65_001	8.0	0.010	0.00	0.65
M8.0_0_010_0.05_0.60_001	8.0	0.010	0.05	0.60
M8.0_0_010_0.05_0.65_001	8.0	0.010	0.05	0.65
M8.0_0_010_0.10_0.60_001	8.0	0.010	0.10	0.60
M8.0_0_010_0.10_0.65_001	8.0	0.010	0.10	0.65
M8.0_0_010_0.15_0.65_001	8.0	0.010	0.15	0.65
M8.0_0_010_0.20_0.65_001	8.0	0.010	0.20	0.65
M8.0_0_015_0.00_0.60_001	8.0	0.015	0.00	0.60
M8.0_0_015_0.05_0.60_001	8.0	0.015	0.05	0.60
M8.0_0_015_0.10_0.60_001	8.0	0.015	0.10	0.60
M8.0_0_015_0.15_0.60_001	8.0	0.015	0.15	0.60
M8.0_0_015_0.20_0.60_001	8.0	0.015	0.20	0.60
M8.1_0_010_0.00_0.60_001	8.1	0.010	0.00	0.60
M8.1_0_010_0.00_0.65_001	8.1	0.010	0.00	0.65
M8.1_0_010_0.05_0.60_001	8.1	0.010	0.05	0.60
M8.1_0_010_0.05_0.65_001	8.1	0.010	0.05	0.65
M8.1_0_010_0.10_0.65_001	8.1	0.010	0.10	0.65
M8.1_0_010_0.15_0.65_001	8.1	0.010	0.15	0.65
M8.1_0_010_0.20_0.65_001	8.1	0.010	0.20	0.65
M8.1_0_015_0.00_0.60_001	8.1	0.015	0.00	0.60
M8.1_0_015_0.05_0.60_001	8.1	0.015	0.05	0.60
M8.1_0_015_0.10_0.60_001	8.1	0.015	0.10	0.60
M8.1_0_015_0.15_0.60_001	8.1	0.015	0.15	0.60
M8.1_0_015_0.20_0.60_001	8.1	0.015	0.20	0.60
M8.2_0_010_0.00_0.65_001	8.2	0.010	0.00	0.65
M8.2_0_010_0.05_0.65_001	8.2	0.010	0.05	0.65
M8.2_0_010_0.10_0.65_001	8.2	0.010	0.10	0.65
M8.2_0_010_0.15_0.65_001	8.2	0.010	0.15	0.65
M8.2_0_010_0.20_0.65_001	8.2	0.010	0.20	0.65
M8.2_0_015_0.00_0.60_001	8.2	0.015	0.00	0.60
M8.2_0_015_0.05_0.60_001	8.2	0.015	0.05	0.60
M8.2_0_015_0.10_0.60_001	8.2	0.015	0.10	0.60
M8.2_0_015_0.15_0.60_001	8.2	0.015	0.15	0.60
M8.2_0_015_0.20_0.60_001	8.2	0.015	0.20	0.60
M8.2_0_015_0.20_0.65_001	8.2	0.015	0.20	0.65
M8.3_0_010_0.00_0.65_001	8.3	0.010	0.00	0.65
M8.3_0_010_0.05_0.65_001	8.3	0.010	0.05	0.65

# BetaDat: A $\beta$ Cephei Database

Search Database:  
Click on a sequence  interpolated model which fits  
the frequency

BetaDat : BetaCephei Database

Explore database - Search - Search by SQL request - Help - Administration

Parameter : Condition : Number 1 : Number 2 : State: Request completed

Mass =  Evolution sequences : 448  
   Models : 224  
Frequencies : 224

Click here to see the SQL request

1 Te between 4.35 and 4.38   
2 g between 3.87 and 3.94   
3 Z < 0.020   
4 Hz = 7.6284e-5   
5 l = 0

Es: 8.3\_0.010\_0.00\_0.65  
Previous  
Add these results to the HR Diagram

Number	Age	Log Te	Log g	Tc	rhoc	Xc	Mnc_no_over	Mnc_over	l	n
182	1.73876e+7	4.36073e+0	3.89408e+0	3.66876e+7	1.40958e+1	1.67463e-1	2.81108e+33	2.81108e+33	0	1
	<b>1.75365e+7</b>	<b>4.35952e+0</b>	<b>3.88640e+0</b>	<b>3.68219e+7</b>	<b>1.42332e+1</b>	<b>1.59870e-1</b>	<b>2.78538e+33</b>	<b>2.78538e+33</b>		
183	1.75908e+7	4.35908e+0	3.88361e+0	3.68708e+7	1.42833e+1	1.57104e-1	2.77602e+33	2.77602e+33		

# BetaDat: A $\beta$ Cephei Database

Search Database:  
Click on a model → all the frequencies of oscillation

BetaDat : BetaCephei Database

Explore database - Search - Search by SQL request - Help - Administration

Parameter : Condition : Number 1 : Number 2 : State: Request completed

Mass =      Evolution sequences : 448  
Add Search Reset Models : 224  
Frequencies : 224

Click here to see the SQL request

1 Te between 4.35 and 4.38 delete Es: 8.3\_0.010\_0.00\_0.65  
2 g between 3.87 and 3.94 delete Previous  
3 Z < 0.020 delete  
4 Hz = 7.6284e-5 delete  
5 l = 0 delete

Number	Age	Log Te	Log g	Tc	rhoc	Xc	Mnc_no_over	Mnc_over	l	n
182	1.73876e+7	4.36073e+0	3.89408e+0	3.66876e+7	1.40958e+1	1.67463e-1	2.81108e+33	2.81108e+33	0	1
	<b>1.75365e+7</b>	<b>4.35952e+0</b>	<b>3.88640e+0</b>	<b>3.68219e+7</b>	<b>1.42332e+1</b>	<b>1.59870e-1</b>	<b>2.78538e+33</b>	<b>2.78538e+33</b>		
183	1.75908e+7	4.35908e+0	3.88361e+0	3.68708e+7	1.42033e+1	1.57104e-1	2.77602e+33	2.77602e+33		

l n Hz beta

0 1 **7.72450e-5** **0.00000e-1**

0 2 1.00270e-4 0.00000e-1

0 3 1.21310e-4 0.00000e-1

0 4 1.44380e-4 0.00000e-1

0 5 1.69890e-4 0.00000e-1

0 6 1.96560e-4 0.00000e-1

0 7 2.23860e-4 0.00000e-1

0 8 2.50660e-4 0.00000e-1

1 -3 2.98630e-5 5.51330e-1

1 -2 3.92730e-5 5.26710e-1

1 -1 7.77620e-5 6.79200e-1

1 1 8.58840e-5 6.44900e-1

1 2 1.09050e-4 9.62600e-1

1 3 1.31710e-4 9.73350e-1

1 4 1.55790e-4 9.76080e-1

1 5 1.81890e-4 9.79770e-1

1 6 2.08720e-4 9.81400e-1

1 7 2.35670e-4 9.84410e-1

1 8 2.62040e-4 9.87070e-1

2 -7 2.42840e-5 8.56110e-1

2 -6 2.60130e-5 8.57650e-1

2 -5 3.25610e-5 8.76320e-1

2 -4 3.71510e-5 8.48600e-1

2 -3 4.78840e-5 8.76290e-1

2 -2 6.38110e-5 8.42790e-1

2 -1 7.62570e-5 8.54900e-1

2 0 9.67110e-5 8.00020e-1

2 1 1.18850e-4 8.96360e-1

# BetaDat: A $\beta$ Cephei Database

Soon available: graphical tool to plot the results in the HR diagram

# BetaDat: A $\beta$ Cephei Database

Access info:

<http://astrotheor3.astro.ulg.ac.be>

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