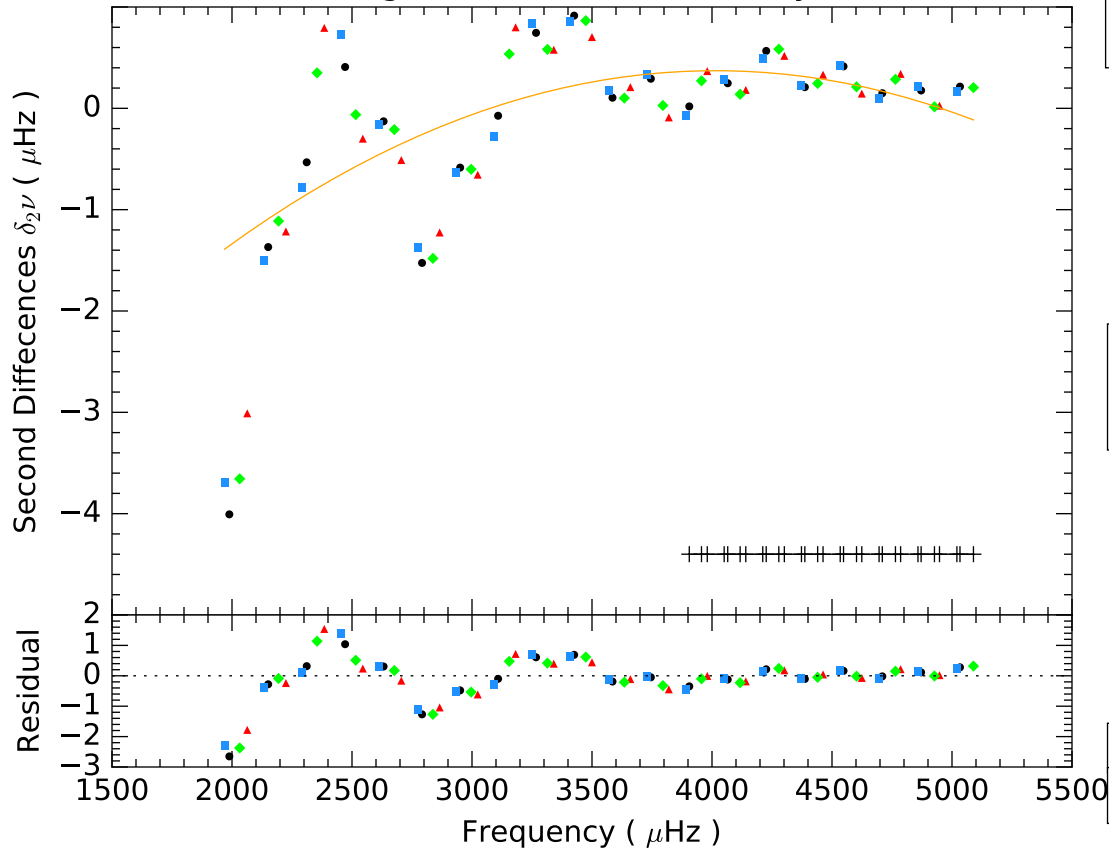


Age after ZAMS: 0.000 Gyr

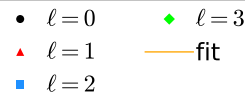
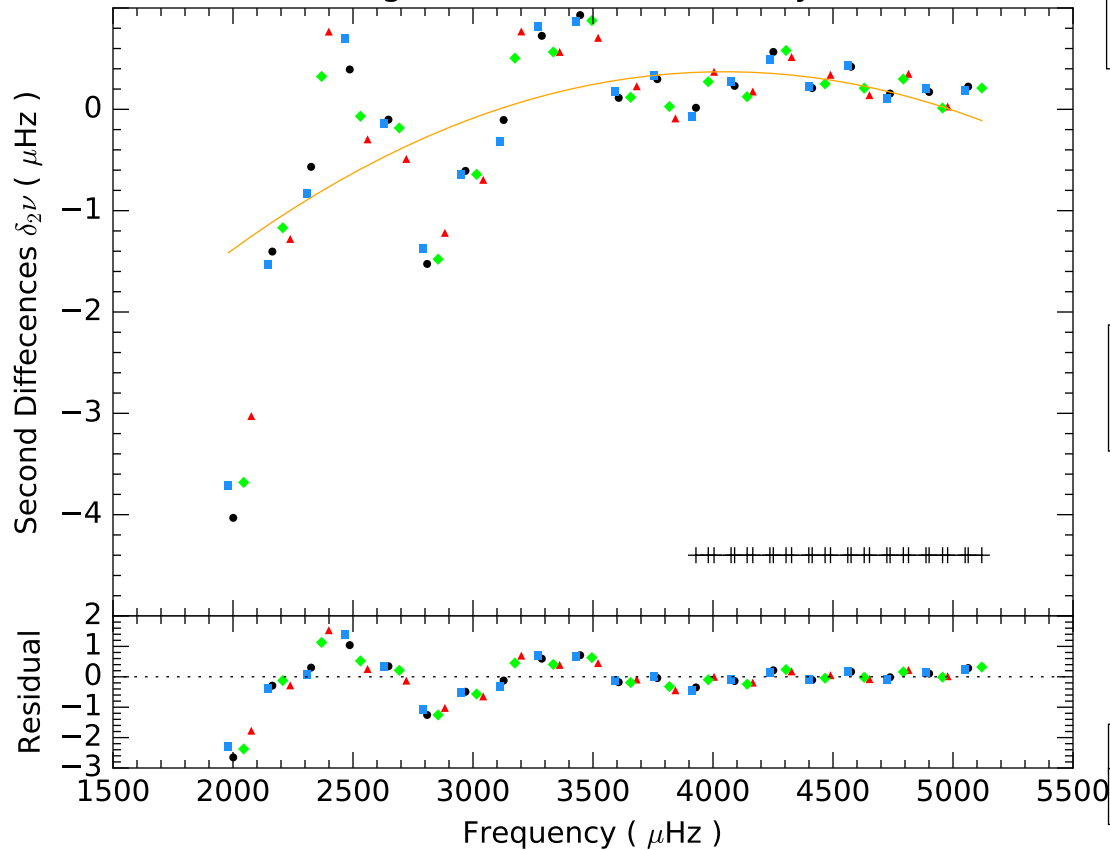


$$\begin{aligned} a_0 &= -6.4109 \mu \text{ Hz} \\ a_1 &= 0.0033785 \\ a_2 &= -4.2074e-07 \mu \text{ Hz} \end{aligned}$$

profile1

$$\chi^2_\nu (\text{dof} = 76) = 0.53066$$

Age after ZAMS: 0.000 Gyr

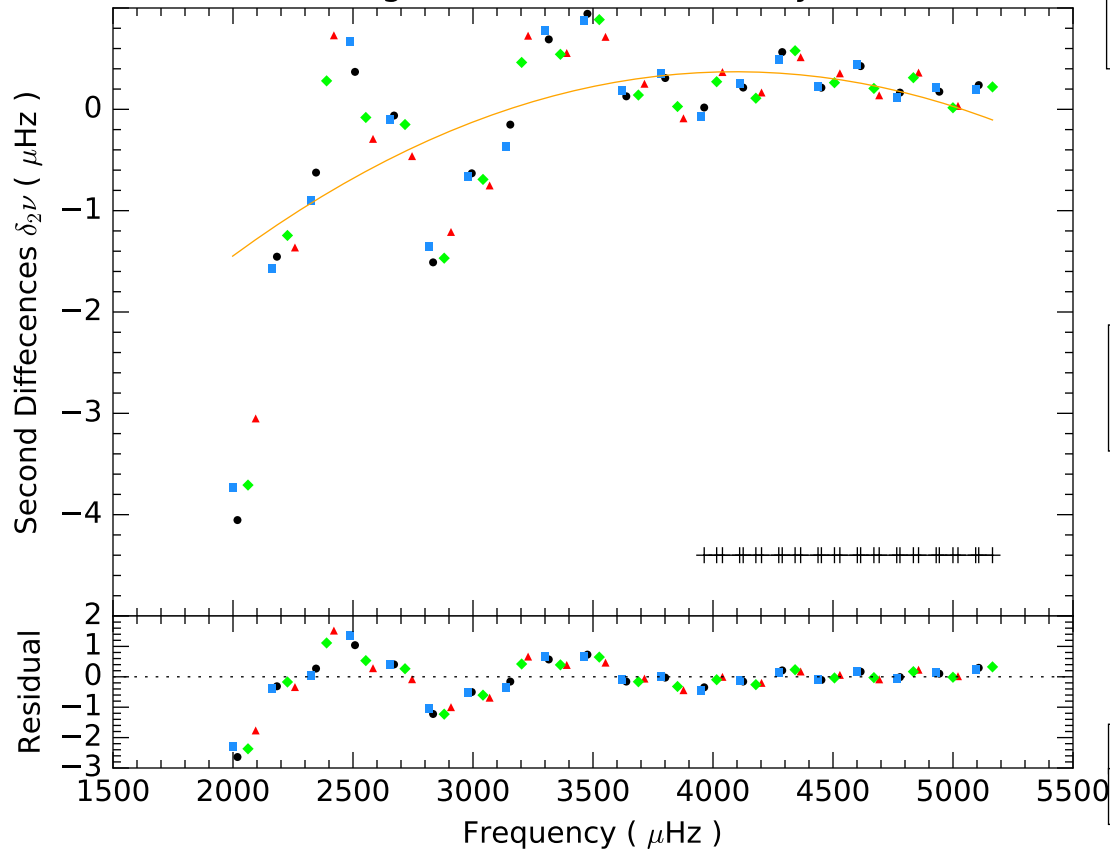


$$\begin{aligned}
 a_0 &= -6.4828 \mu \text{ Hz} \\
 a_1 &= 0.0033874 \\
 a_2 &= -4.1854e-07 \mu\text{Hz}
 \end{aligned}$$

profile2

$$\chi^2_\nu (\text{dof} = 76) = 0.53014$$

Age after ZAMS: 0.001 Gyr



- $\ell=0$
- ▲ $\ell=1$
- $\ell=2$
- ◆ $\ell=3$
- fit

$$a_0 = -6.5771 \mu \text{ Hz}$$

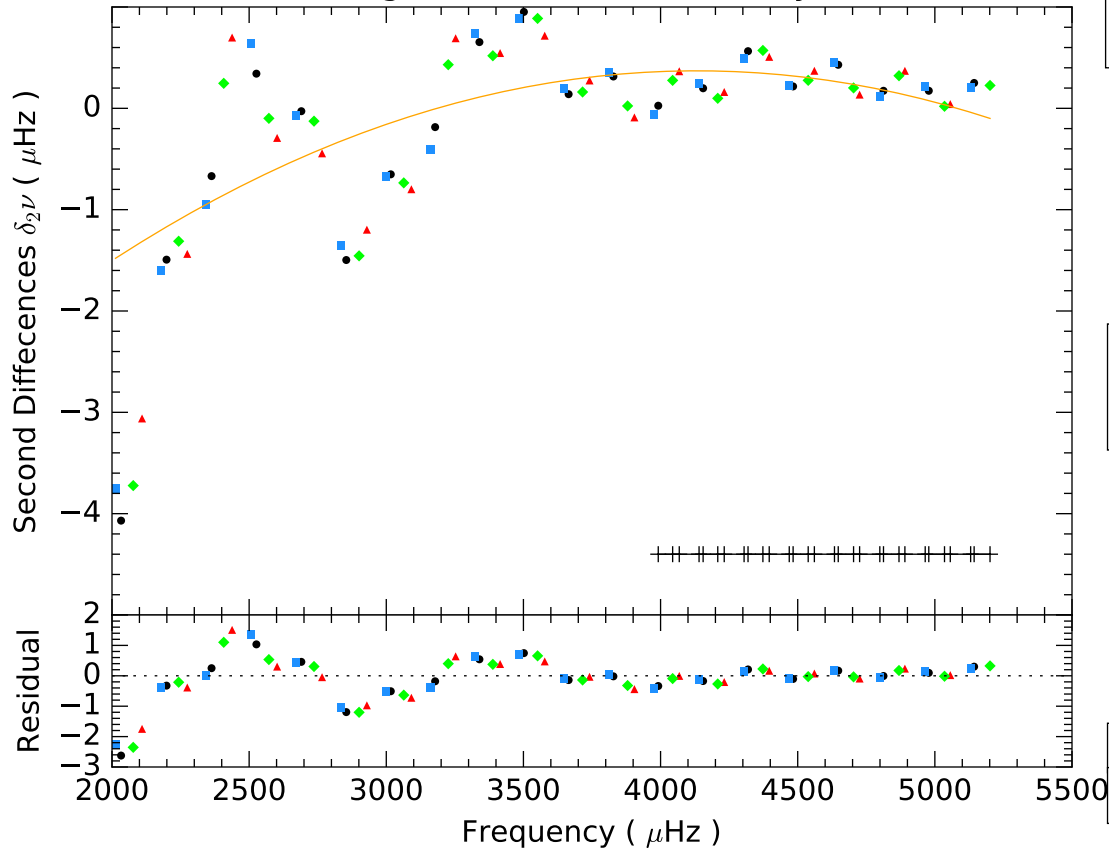
$$a_1 = 0.0033948$$

$$a_2 = -4.1467e-07 \mu\text{Hz}^{-1}$$

profile3

$$\chi^2_\nu(\text{dof} = 76) = 0.52637$$

Age after ZAMS: 0.002 Gyr



- $\ell = 0$
- ▲ $\ell = 1$
- $\ell = 2$
- ◆ $\ell = 3$
- fit

$$a_0 = -6.6604 \mu \text{ Hz}$$

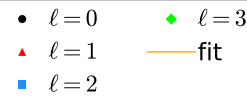
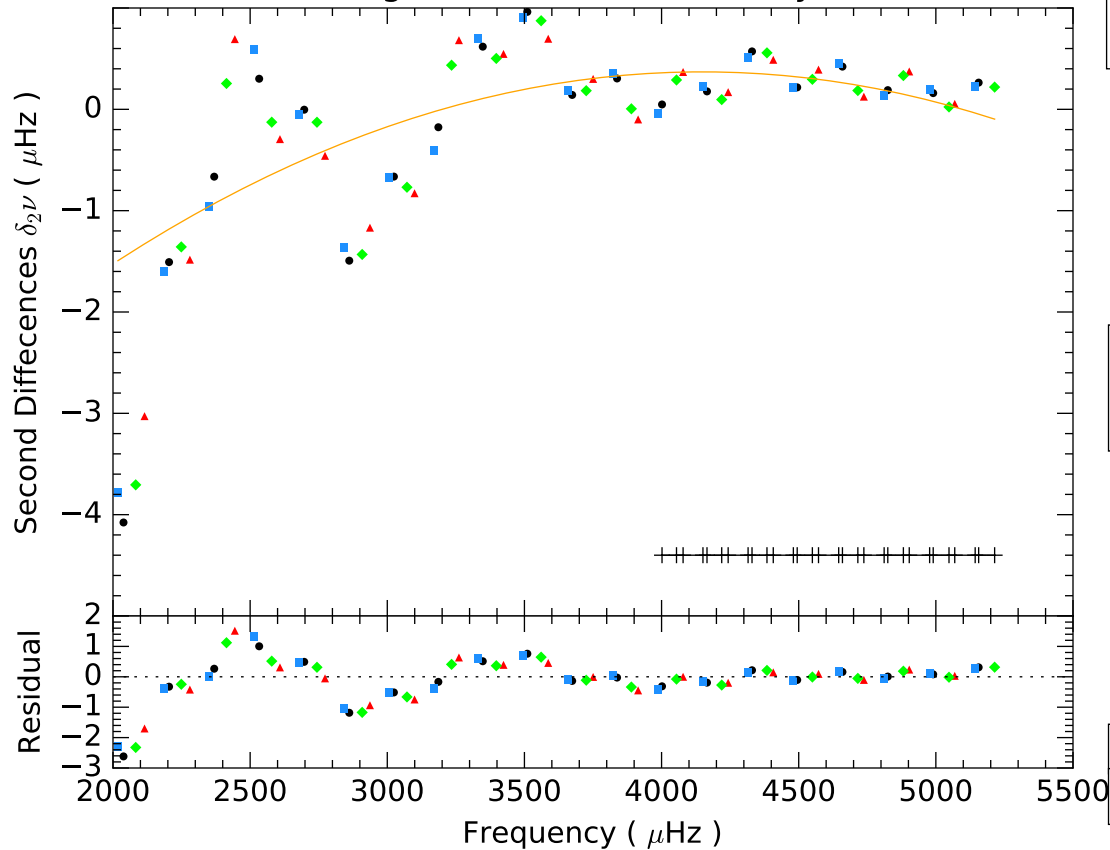
$$a_1 = 0.0034023$$

$$a_2 = -4.116e-07 \mu \text{ Hz}^{-1}$$

profile4

$$\chi^2_\nu (\text{dof} = 76) = 0.5211$$

Age after ZAMS: 0.004 Gyr

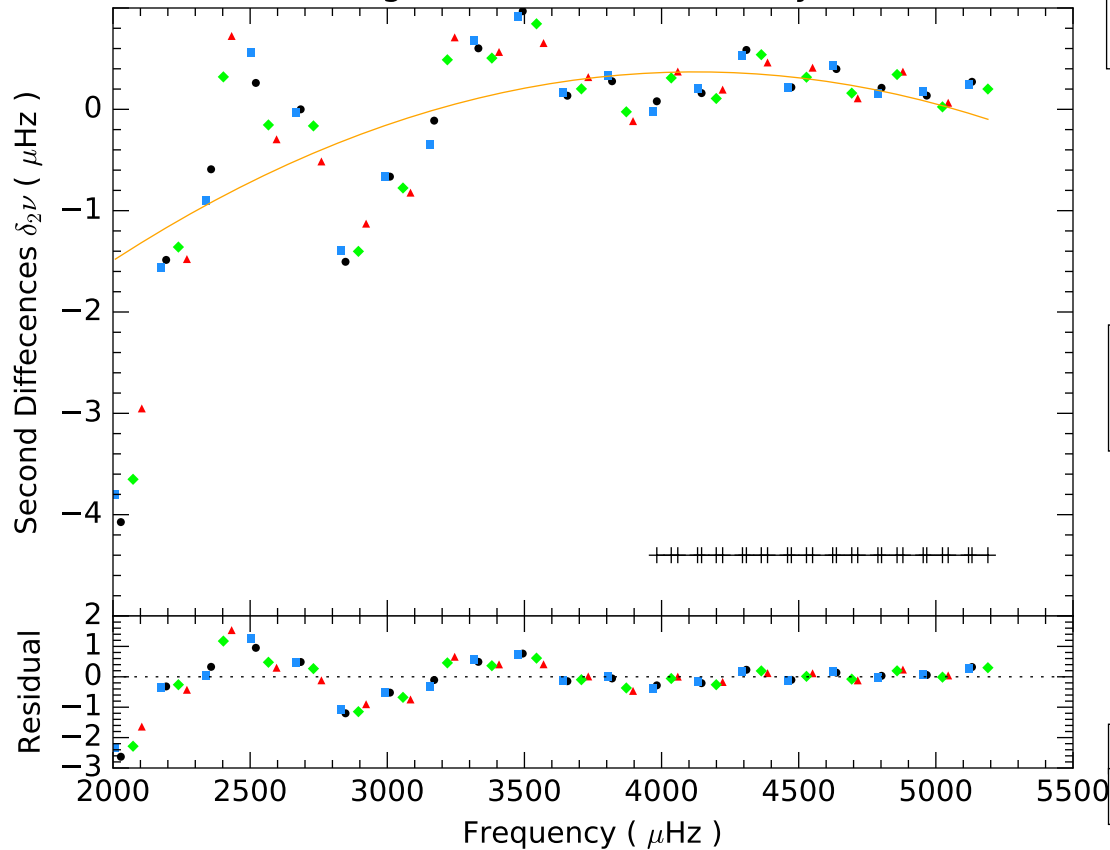


$$\begin{aligned}
 a_0 &= -6.6955 \mu \text{ Hz} \\
 a_1 &= 0.0034062 \\
 a_2 &= -4.1053e-07 \mu \text{ Hz}
 \end{aligned}$$

profile5

$$\chi^2_\nu (\text{dof} = 76) = 0.51539$$

Age after ZAMS: 0.007 Gyr



$$a_0 = -6.6498 \mu \text{ Hz}$$

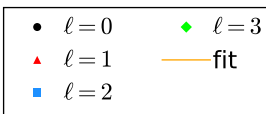
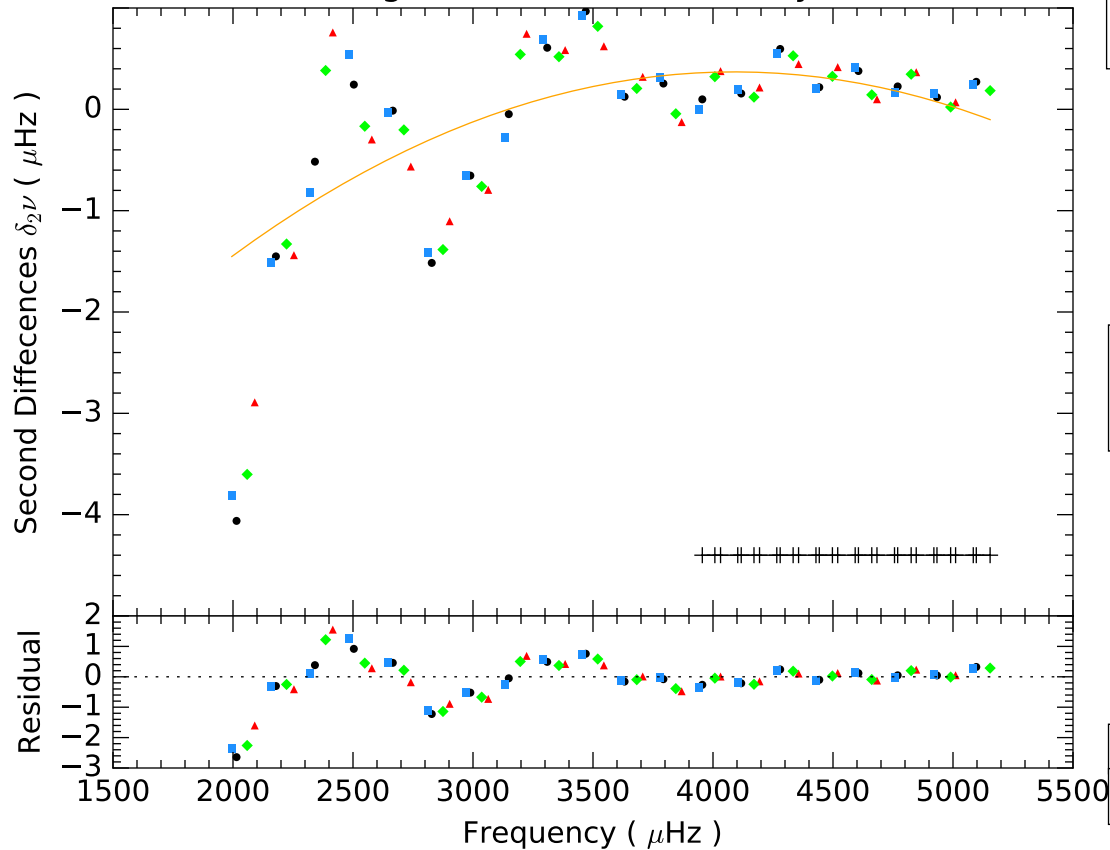
$$a_1 = 0.0034034$$

$$a_2 = -4.1254e-07 \mu \text{ Hz}^{-1}$$

profile6

$$\chi^2_\nu (\text{dof} = 76) = 0.5119$$

Age after ZAMS: 0.013 Gyr

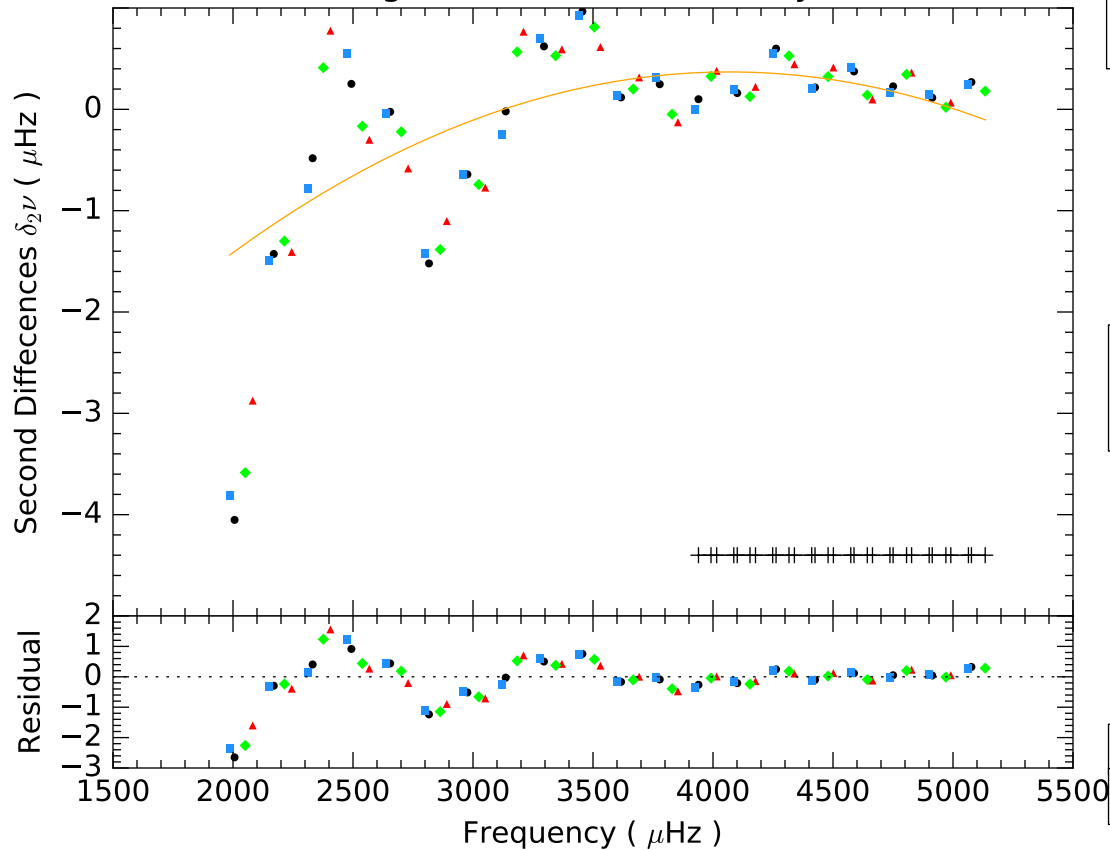


$$\begin{aligned}
 a_0 &= -6.5768 \mu \text{ Hz} \\
 a_1 &= 0.0033971 \\
 a_2 &= -4.1535e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile7

$$\chi^2_\nu(\text{dof} = 76) = 0.51168$$

Age after ZAMS: 0.023 Gyr



$$a_0 = -6.5293 \mu \text{ Hz}$$

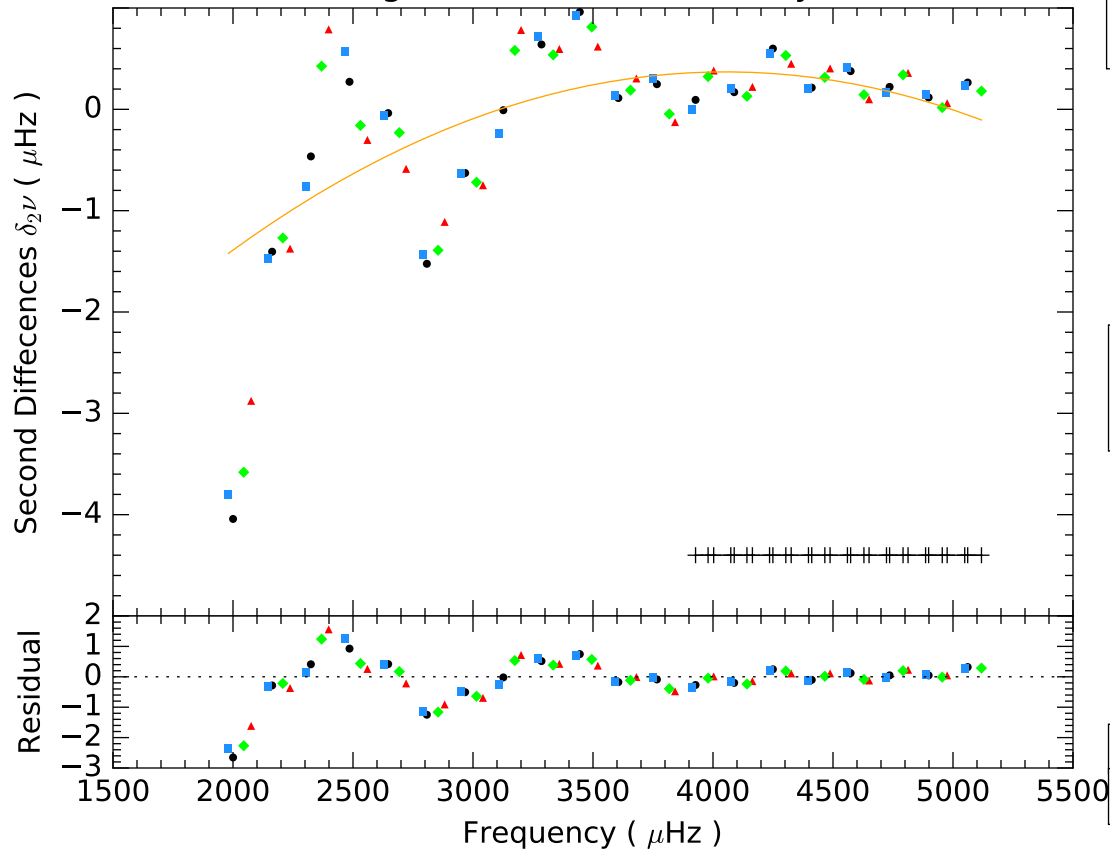
$$a_1 = 0.0033912$$

$$a_2 = -4.1676e-07 \mu\text{Hz}^{-1}$$

profile8

$$\chi^2_\nu (\text{dof} = 76) = 0.51336$$

Age after ZAMS: 0.039 Gyr



$$a_0 = -6.4865 \mu \text{ Hz}$$

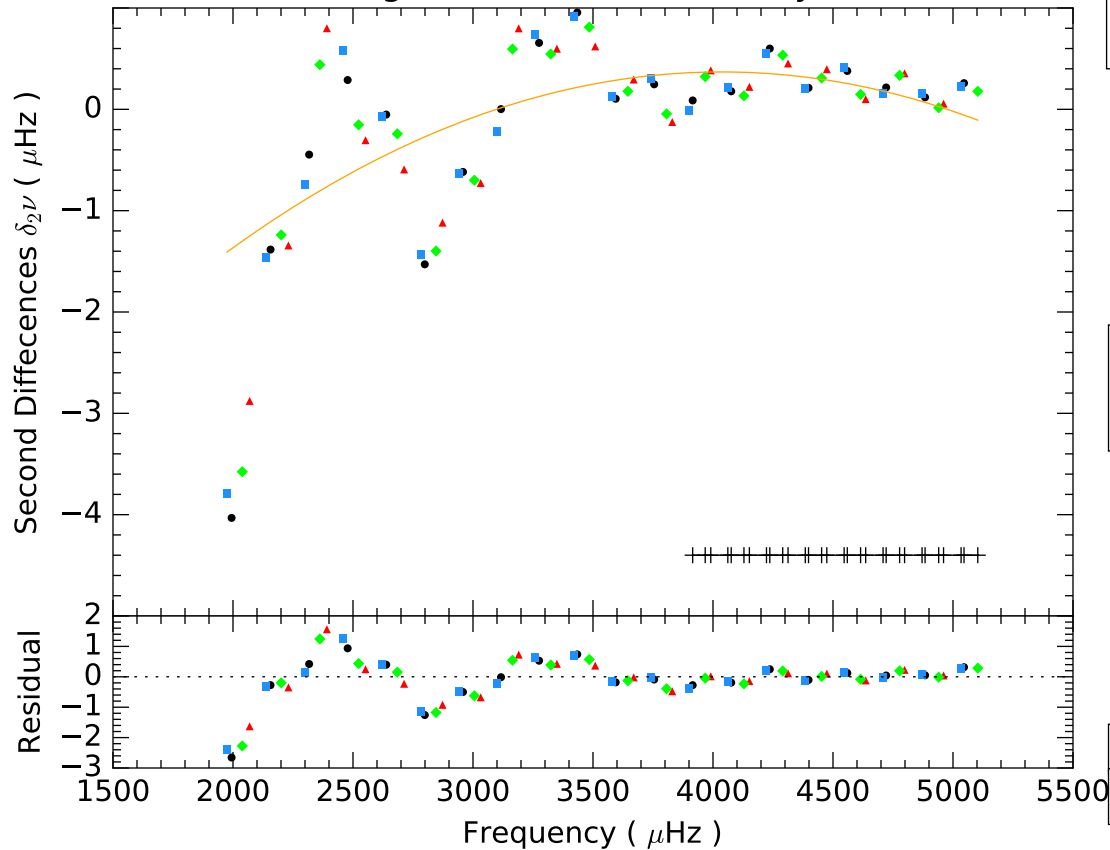
$$a_1 = 0.0033839$$

$$a_2 = -4.1754e-07 \mu\text{Hz}^{-1}$$

profile9

$$\chi^2_\nu (\text{dof} = 76) = 0.51634$$

Age after ZAMS: 0.068 Gyr

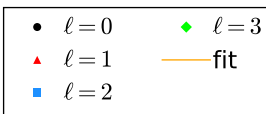
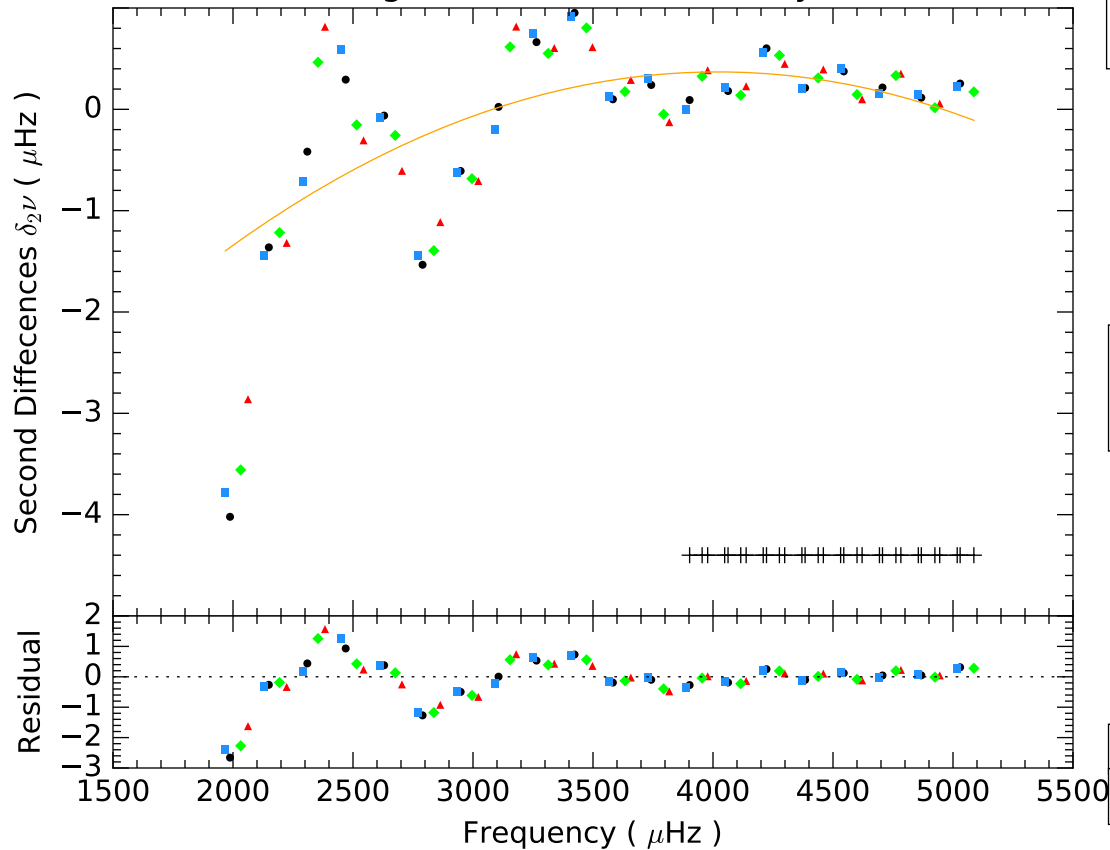


$$\begin{aligned} a_0 &= -6.4476 \mu \text{ Hz} \\ a_1 &= 0.0033776 \\ a_2 &= -4.1837e-07 \mu \text{ Hz} \end{aligned}$$

profile10

$$\chi^2_\nu (\text{dof} = 76) = 0.51873$$

Age after ZAMS: 0.118 Gyr



$$a_0 = -6.4083 \mu \text{ Hz}$$

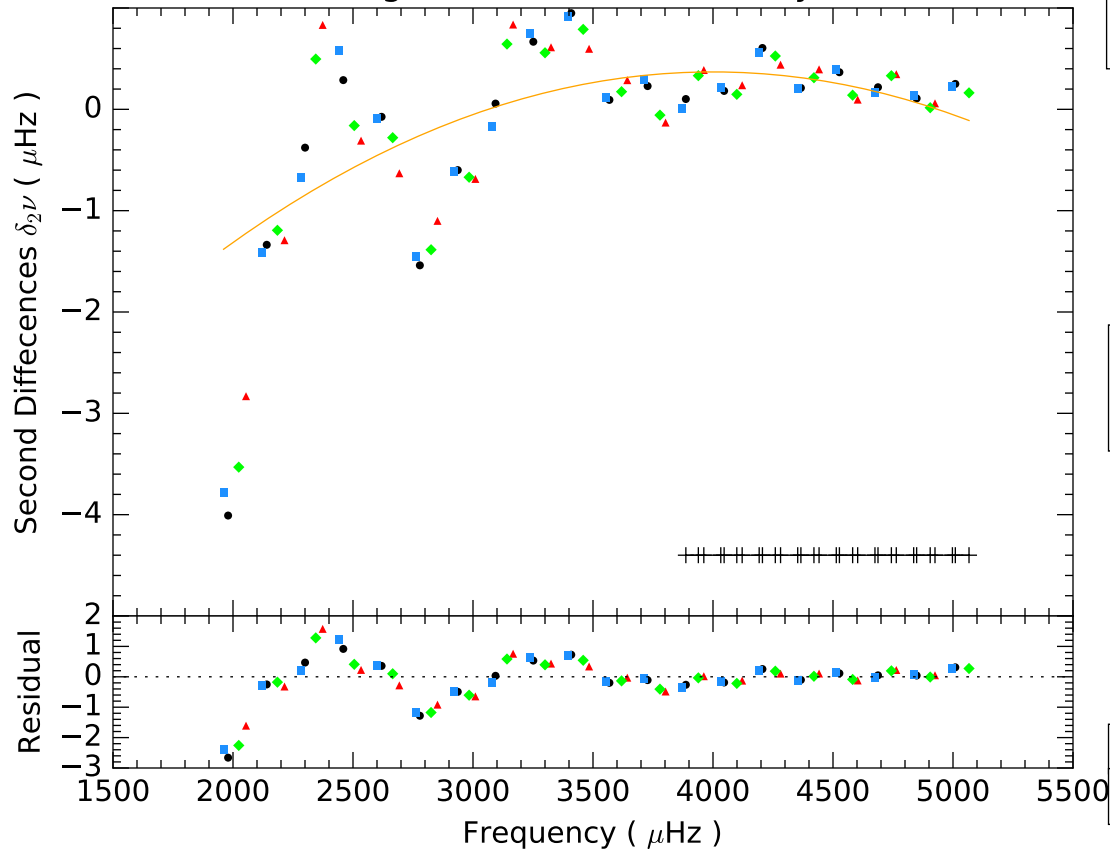
$$a_1 = 0.0033722$$

$$a_2 = -4.1945e-07 \mu\text{Hz}^{-1}$$

profile11

$$\chi^2_\nu(\text{dof} = 76) = 0.51942$$

Age after ZAMS: 0.205 Gyr



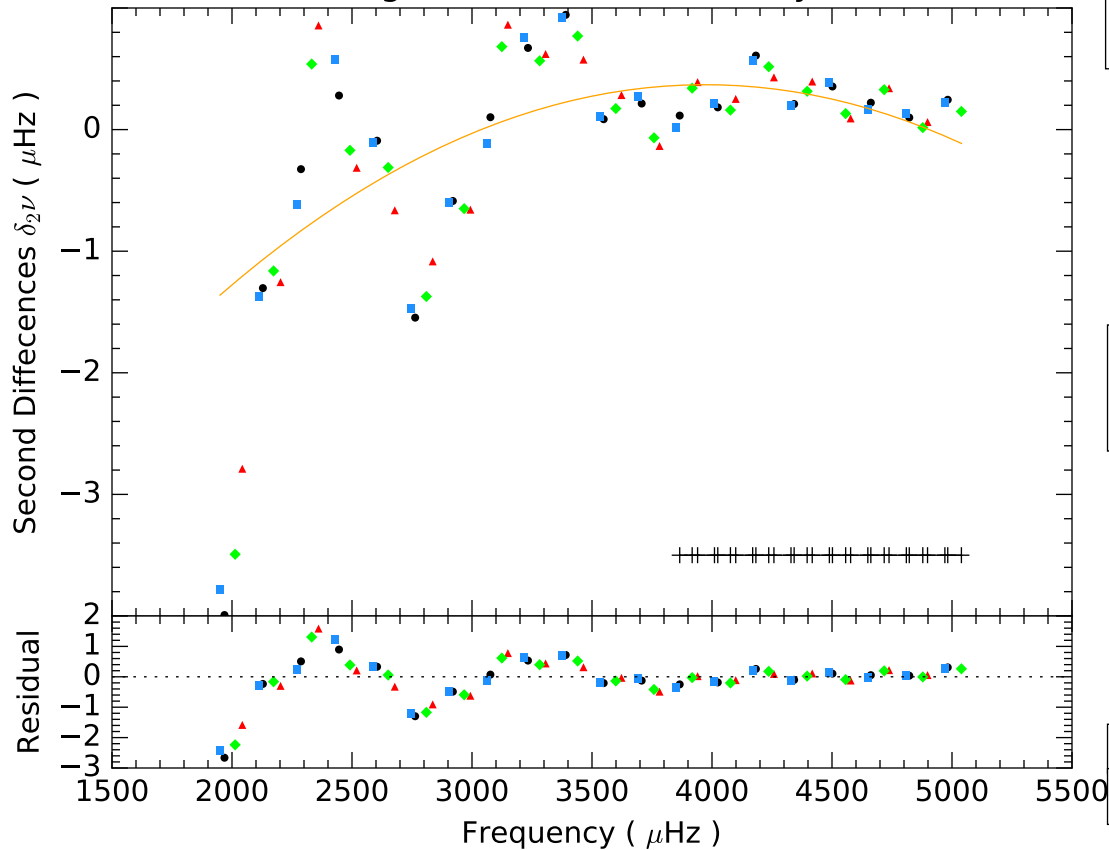
- \bullet $\ell=0$
- \blacktriangle $\ell=1$
- \blacksquare $\ell=2$
- \blacklozenge $\ell=3$
- fit

$$\begin{aligned}a_0 &= -6.3661 \mu\text{Hz} \\a_1 &= 0.0033682 \\a_2 &= -4.2109e-07 \mu\text{Hz}^{-1}\end{aligned}$$

profile12

$$\chi^2_\nu(\text{dof} = 76) = 0.51906$$

Age after ZAMS: 0.354 Gyr



- $\ell=0$
- ▲ $\ell=1$
- $\ell=2$
- ◆ $\ell=3$
- fit

$$a_0 = -6.3104 \mu\text{Hz}$$

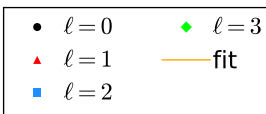
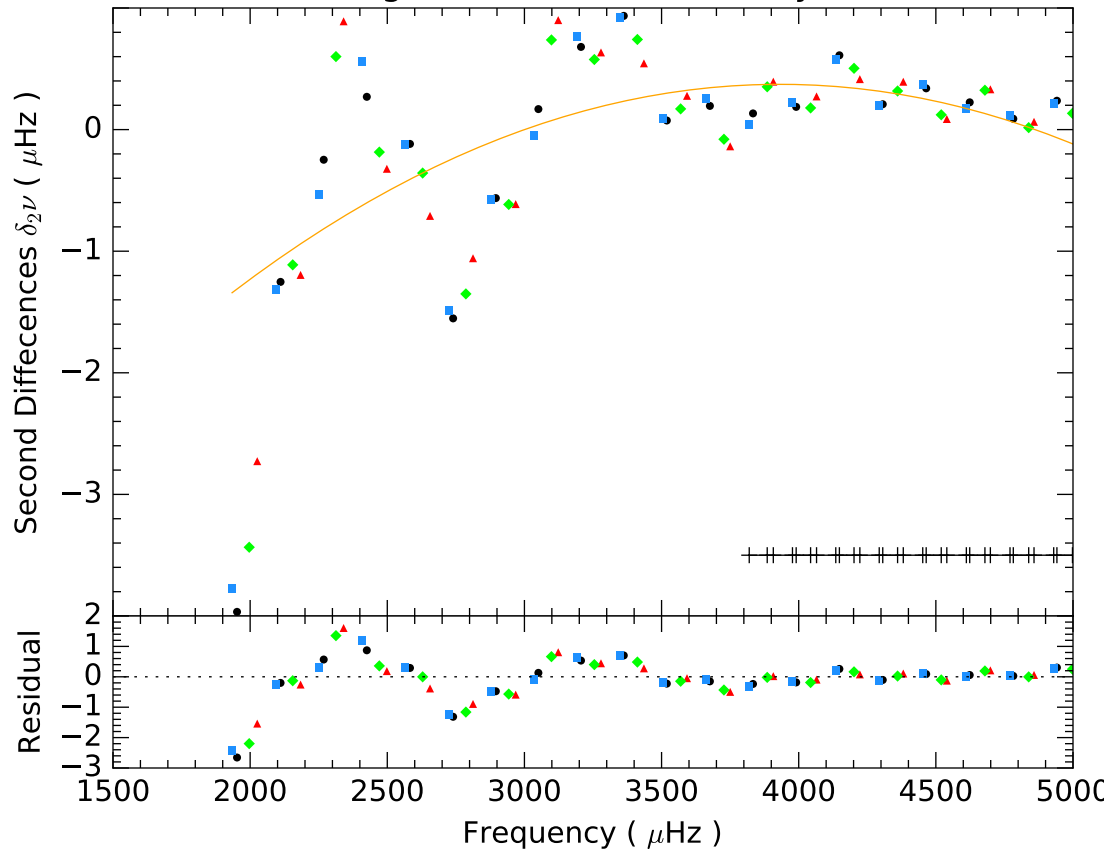
$$a_1 = 0.0033638$$

$$a_2 = -4.235e-07 \mu\text{Hz}^{-1}$$

profile13

$$\chi^2_\nu (\text{dof} = 76) = 0.51846$$

Age after ZAMS: 0.610 Gyr



$$a_0 = -6.2699 \mu \text{ Hz}$$

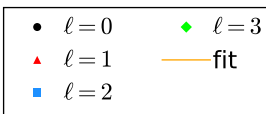
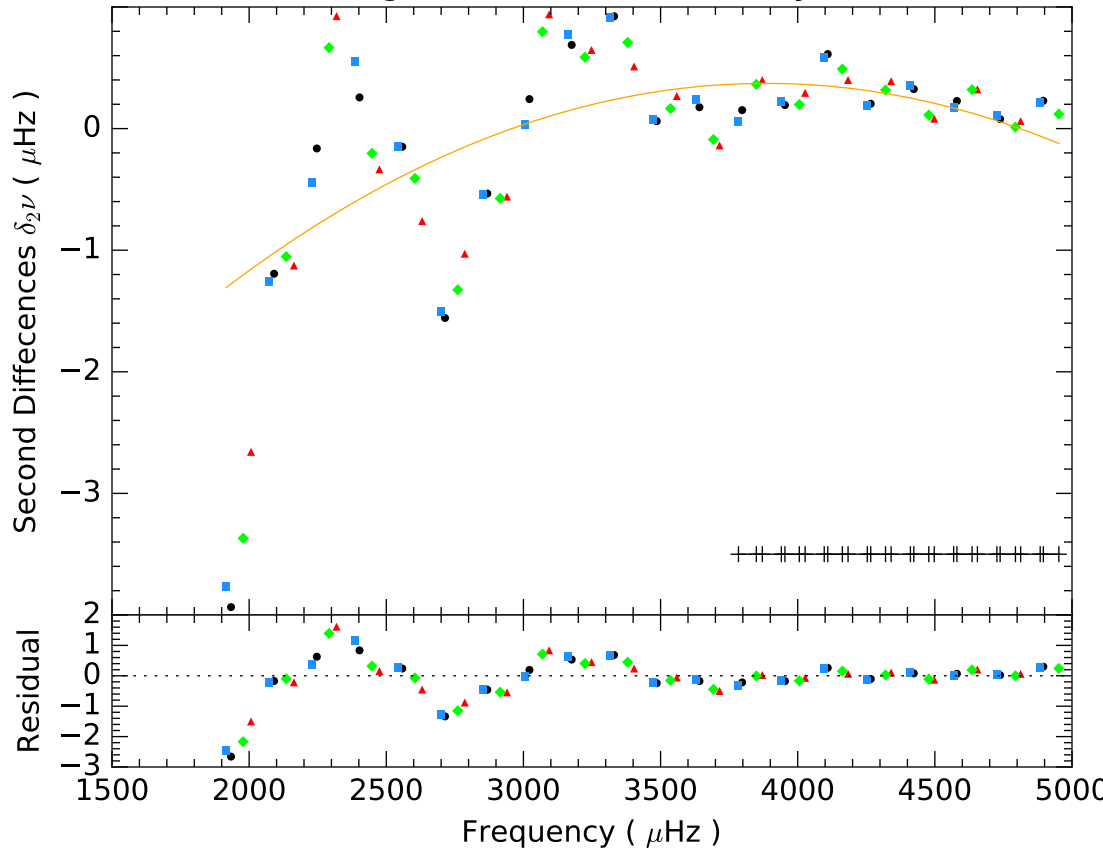
$$a_1 = 0.0033794$$

$$a_2 = -4.2983e-07 \mu \text{ Hz}^{-1}$$

profile14

$$\chi^2_\nu (\text{dof} = 76) = 0.51573$$

Age after ZAMS: 0.910 Gyr



$$a_0 = -6.1706 \mu \text{ Hz}$$

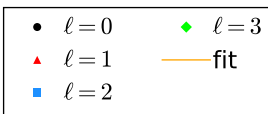
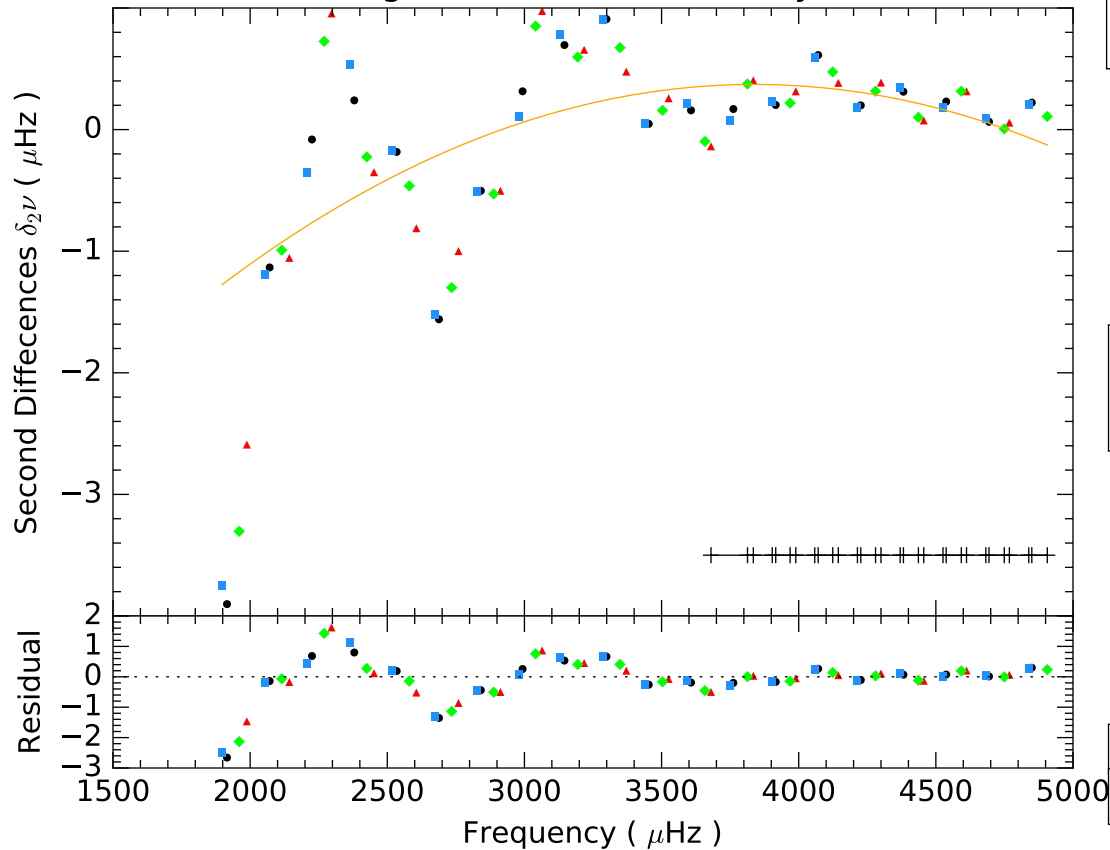
$$a_1 = 0.003369$$

$$a_2 = -4.337e-07 \mu \text{ Hz}^{-1}$$

profile15

$$\chi^2_\nu (\text{dof} = 76) = 0.51497$$

Age after ZAMS: 1.210 Gyr

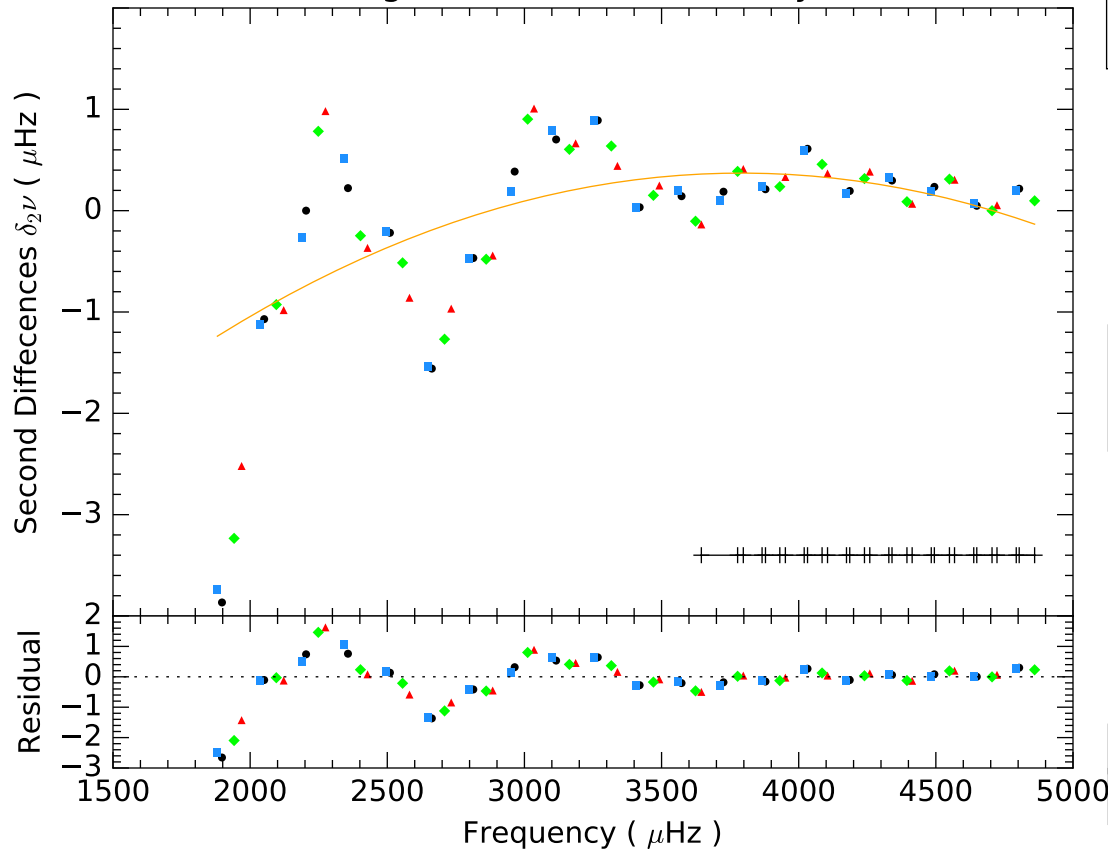


$a_0 = -6.0684 \mu \text{ Hz}$
 $a_1 = 0.0033555$
 $a_2 = -4.3709e-07 \mu\text{Hz}^{-1}$

profile16

$\chi^2_\nu(\text{dof} = 76) = 0.51398$

Age after ZAMS: 1.510 Gyr



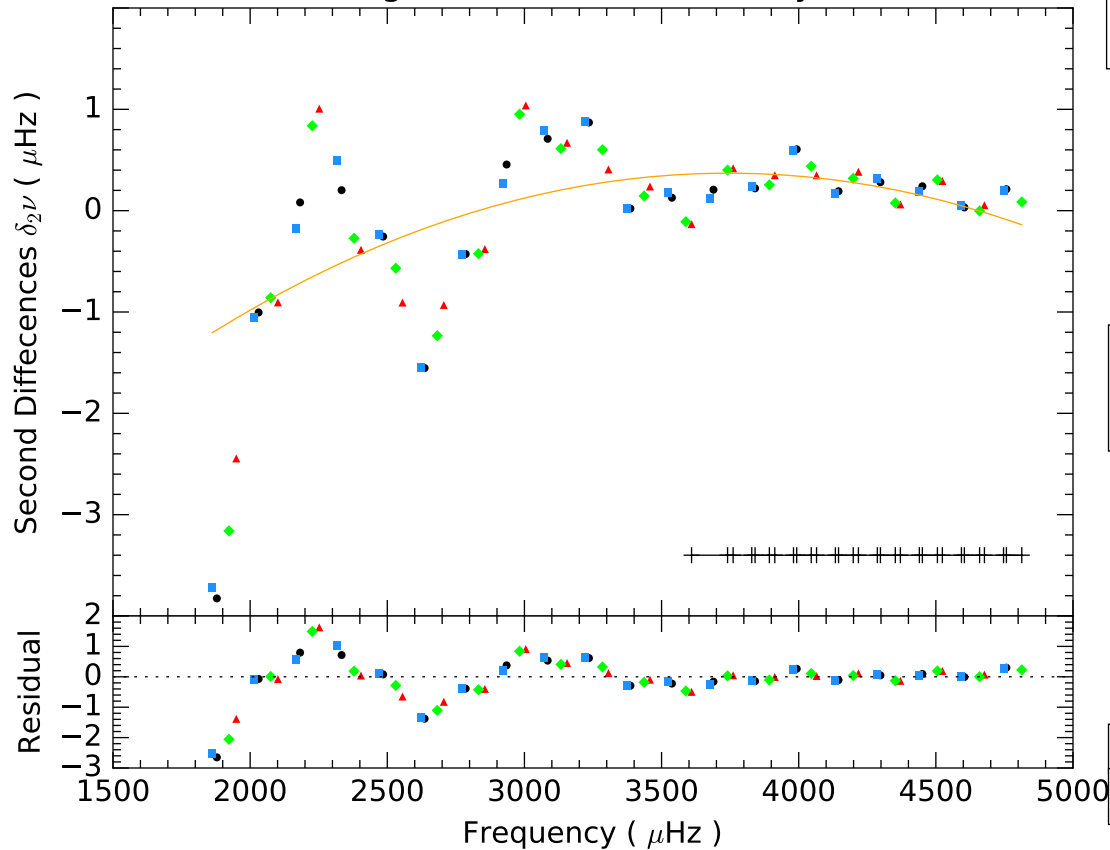
• $\ell=0$ ♦ $\ell=3$
▲ $\ell=1$ — fit
■ $\ell=2$

$a_0 = -5.9672 \mu \text{ Hz}$
 $a_1 = 0.0033437$
 $a_2 = -4.4099e-07 \mu\text{Hz}^{-1}$

profile17

$\chi^2_\nu(\text{dof} = 76) = 0.51247$

Age after ZAMS: 1.810 Gyr

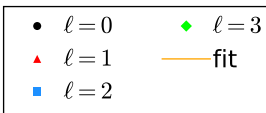
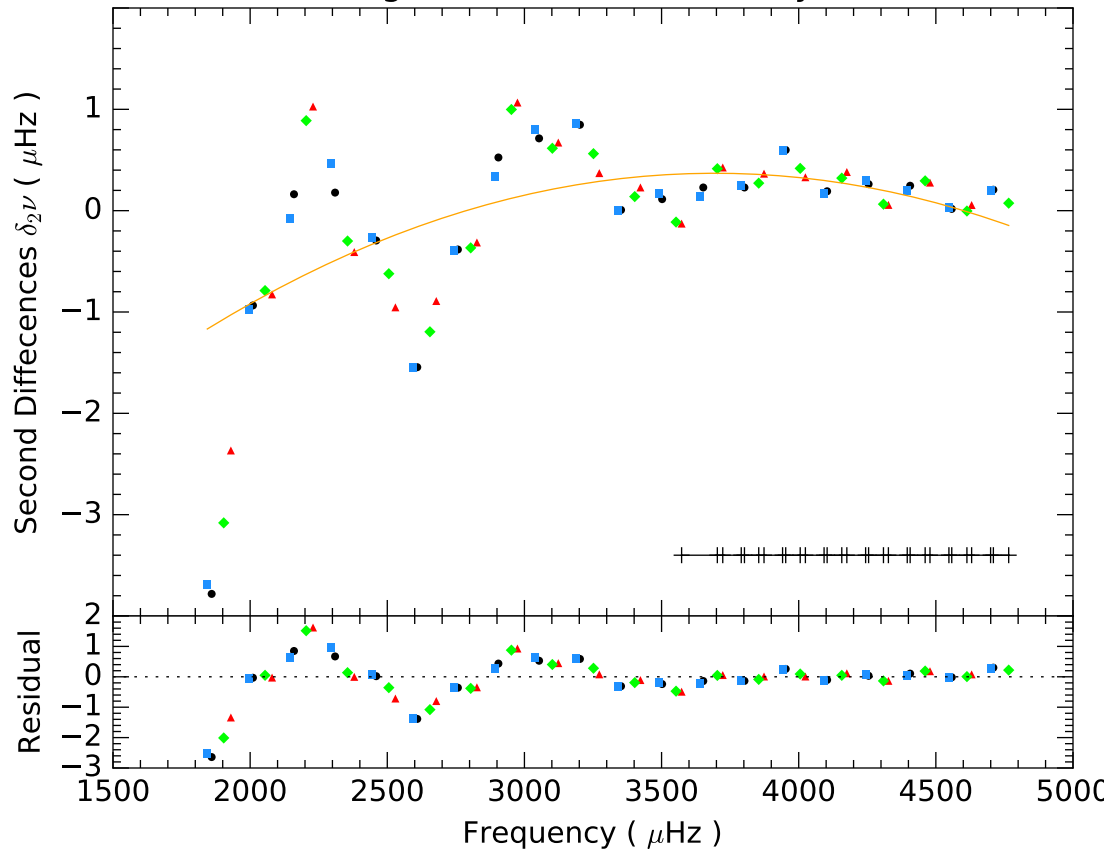


$$\begin{aligned}a_0 &= -5.8634 \mu\text{Hz} \\a_1 &= 0.0033306 \\a_2 &= -4.449e-07 \mu\text{Hz}^{-1}\end{aligned}$$

profile18

$$\chi^2_\nu(\text{dof} = 76) = 0.51034$$

Age after ZAMS: 2.110 Gyr

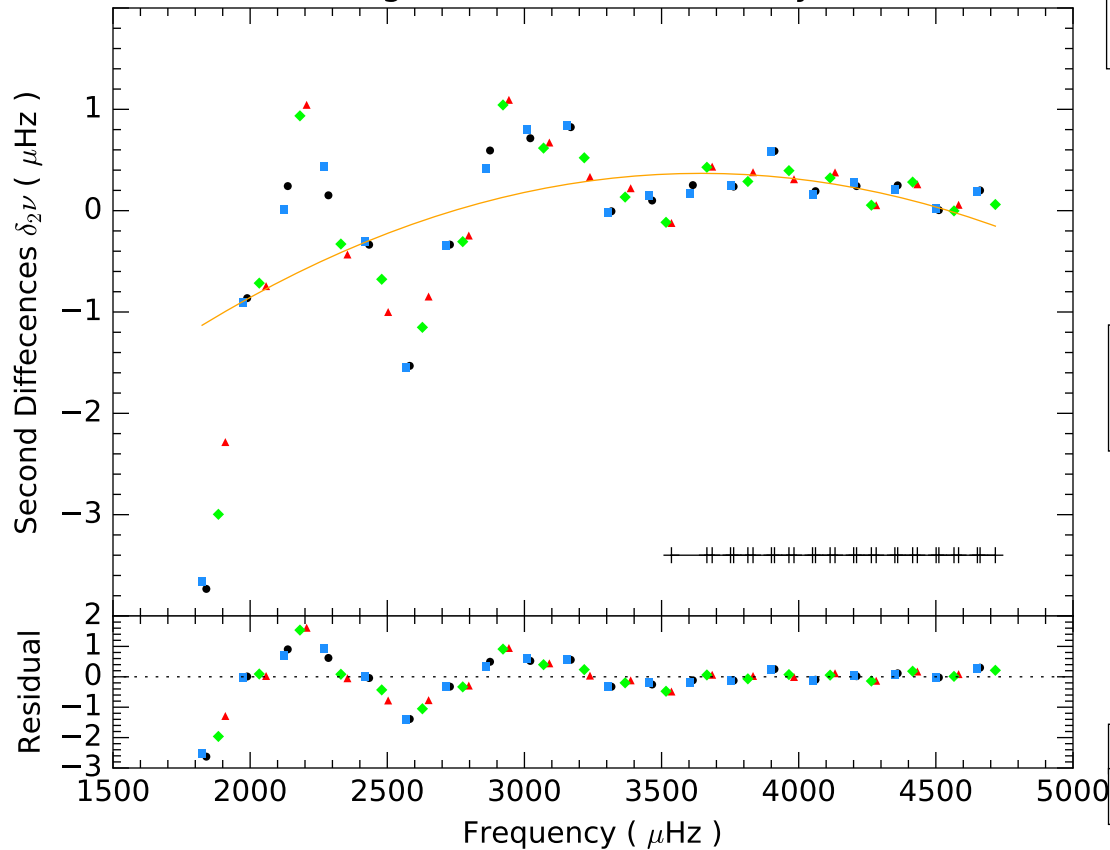


$$\begin{aligned}
 a_0 &= -5.7562 \mu \text{ Hz} \\
 a_1 &= 0.0033161 \\
 a_2 &= -4.4882e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile19

$$\chi^2_\nu(\text{dof} = 76) = 0.50754$$

Age after ZAMS: 2.410 Gyr

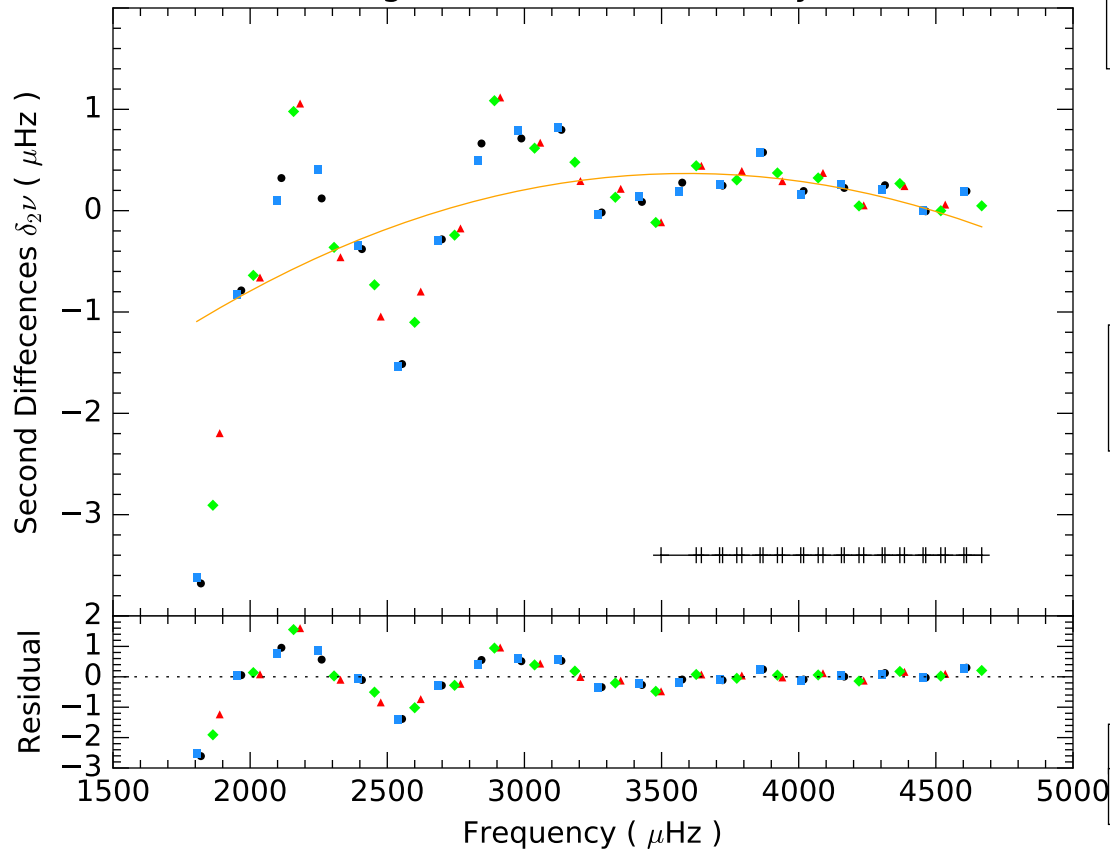


$$\begin{aligned}a_0 &= -5.6457 \mu \text{ Hz} \\a_1 &= 0.0033003 \\a_2 &= -4.5279e-07 \mu \text{ Hz}^{-1}\end{aligned}$$

profile20

$$\chi^2_\nu(\text{dof} = 76) = 0.50405$$

Age after ZAMS: 2.710 Gyr



$$a_0 = -5.5323 \mu \text{ Hz}$$

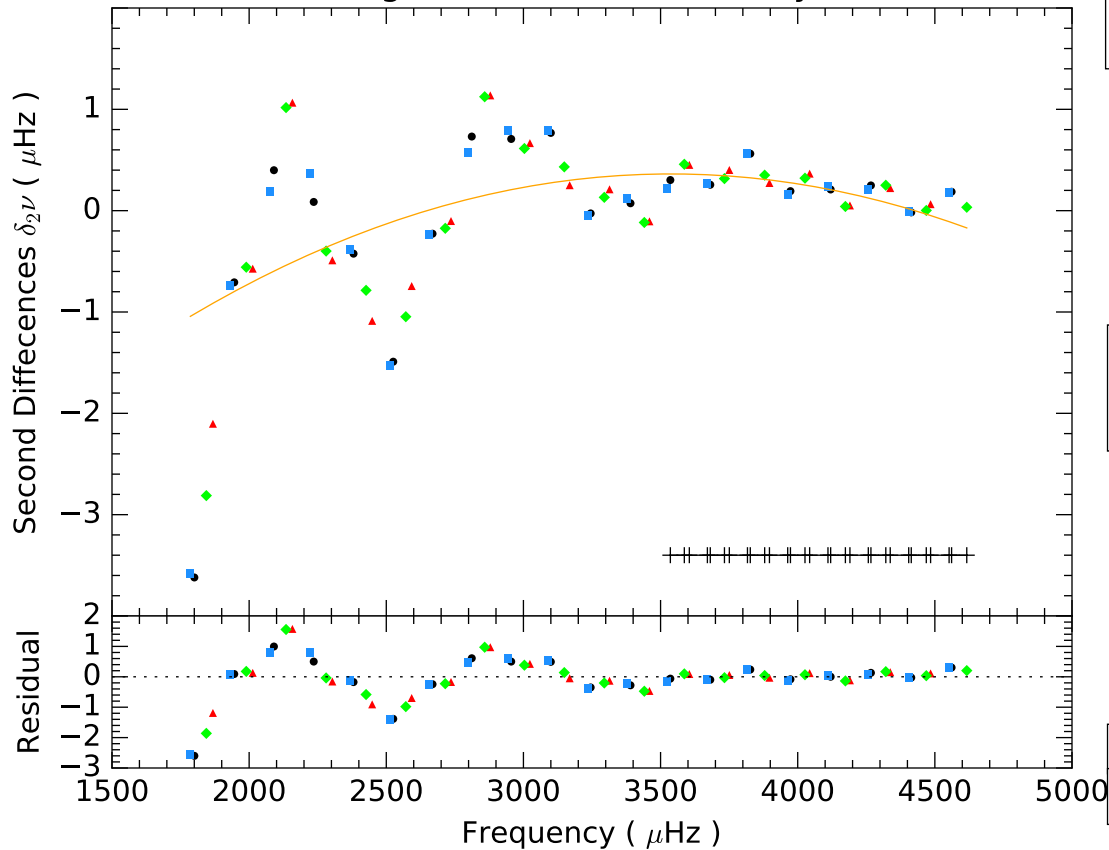
$$a_1 = 0.0032833$$

$$a_2 = -4.5684e-07 \mu\text{Hz}^{-1}$$

profile21

$$\chi^2_\nu(\text{dof} = 76) = 0.49987$$

Age after ZAMS: 3.010 Gyr

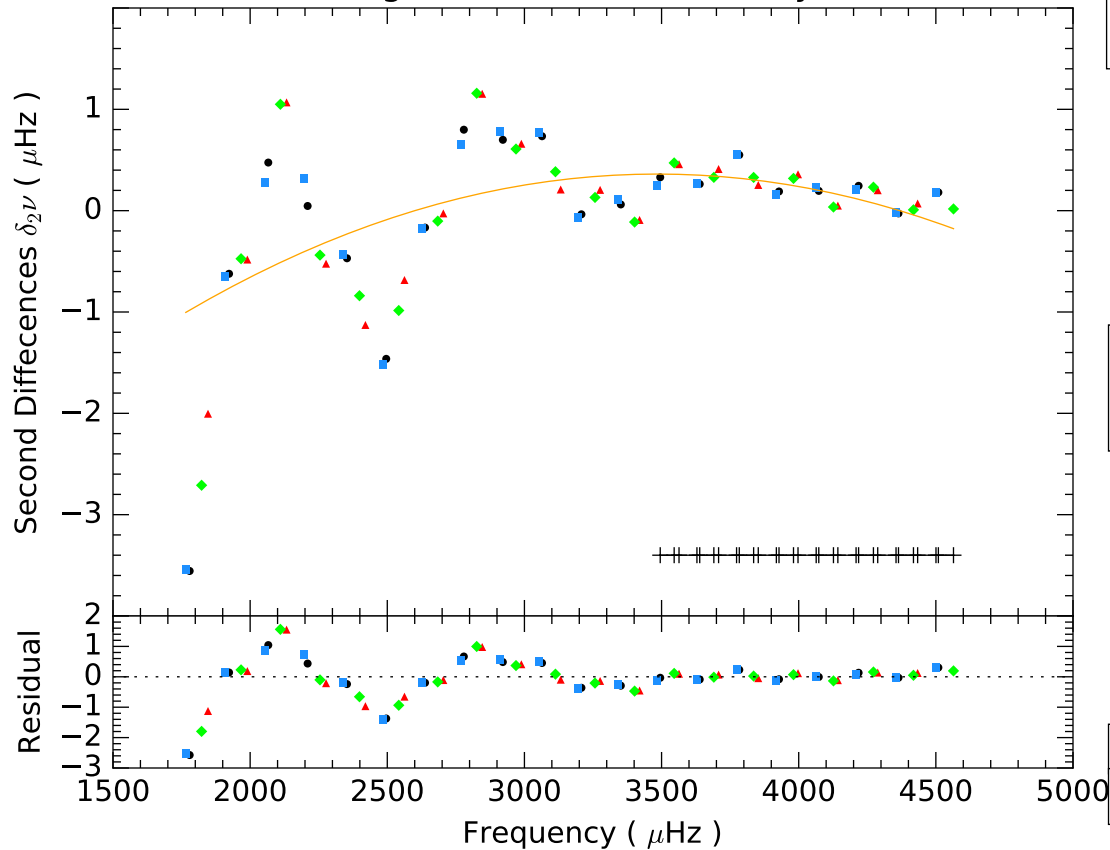


$$\begin{aligned} a_0 &= -5.3677 \mu \text{ Hz} \\ a_1 &= 0.0032395 \\ a_2 &= -4.5786e-07 \mu \text{ Hz} \end{aligned}$$

profile22

$$\chi^2_\nu (\text{dof} = 76) = 0.49692$$

Age after ZAMS: 3.310 Gyr



$$a_0 = -5.2481 \mu \text{ Hz}$$

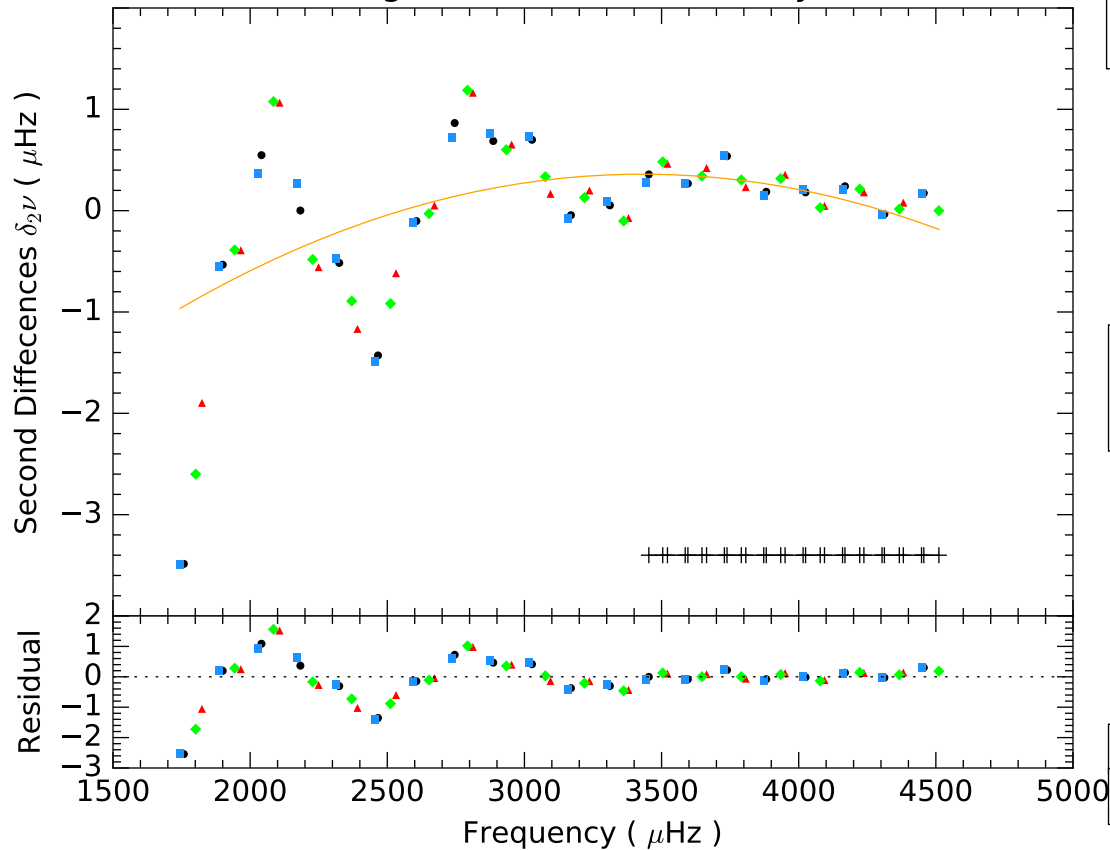
$$a_1 = 0.0032197$$

$$a_2 = -4.6201e-07 \mu\text{Hz}^{-1}$$

profile23

$$\chi^2_\nu(\text{dof} = 76) = 0.49134$$

Age after ZAMS: 3.610 Gyr



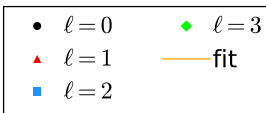
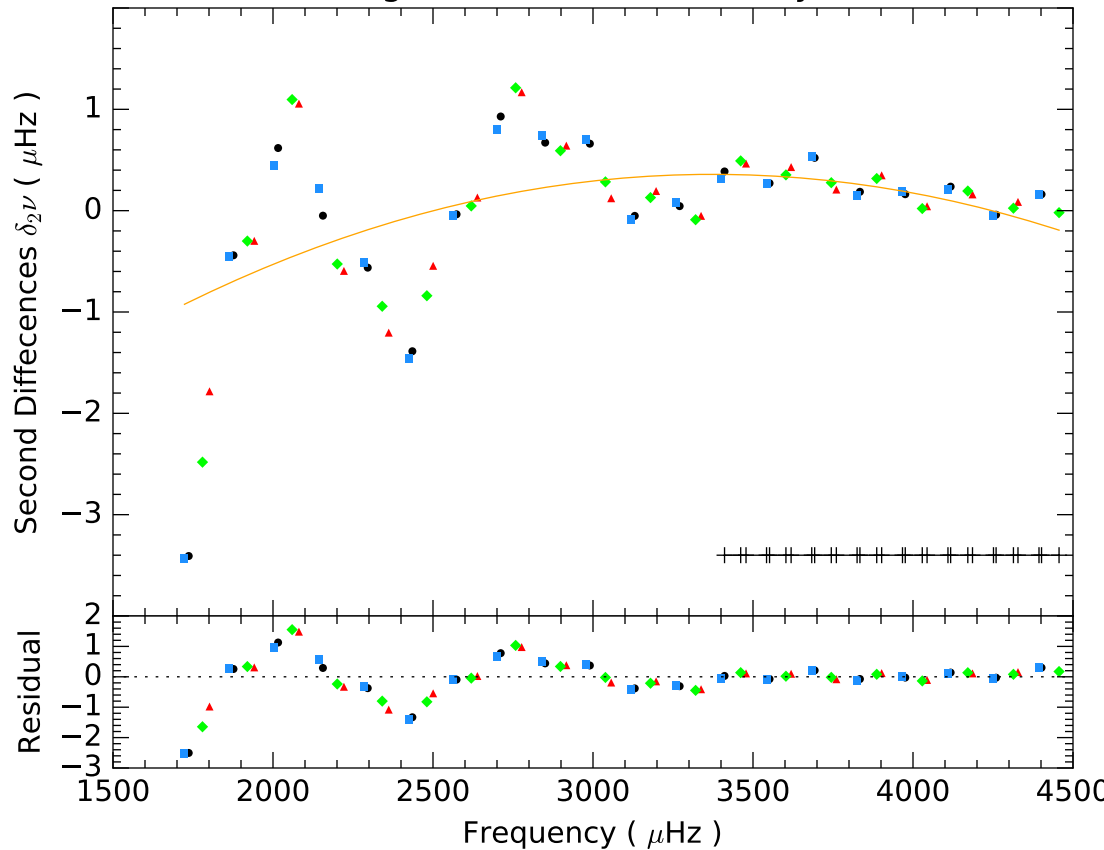
• $\ell=0$ ♦ $\ell=3$
▲ $\ell=1$ — fit
■ $\ell=2$

$a_0 = -5.1247 \mu \text{ Hz}$
 $a_1 = 0.0031981$
 $a_2 = -4.6619e-07 \mu\text{Hz}^{-1}$

profile24

$\chi^2_\nu(\text{dof} = 76) = 0.48496$

Age after ZAMS: 3.910 Gyr

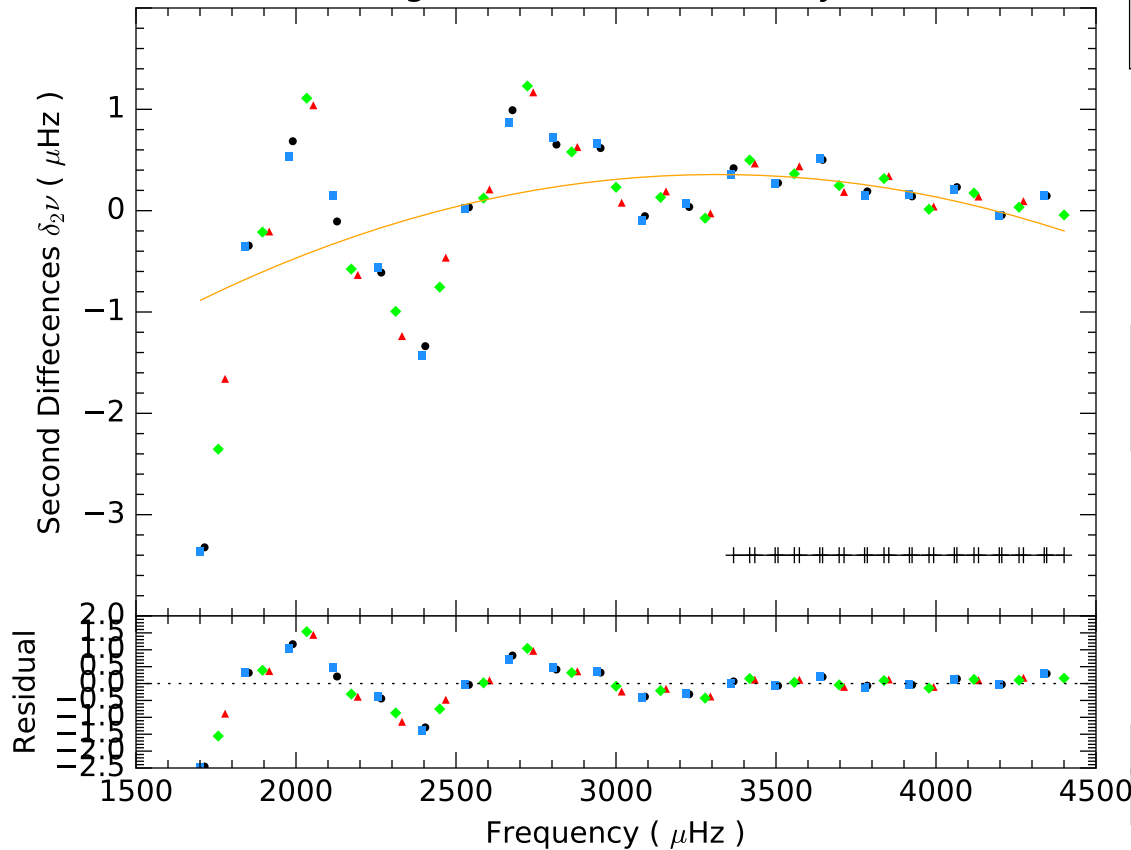


$a_0 = -4.9983 \mu \text{ Hz}$
 $a_1 = 0.0031751$
 $a_2 = -4.7049e-07 \mu\text{Hz}^{-1}$

profile25

$\chi^2_\nu(\text{dof} = 76) = 0.47759$

Age after ZAMS: 4.210 Gyr



- \bullet $\ell=0$
- \blacktriangle $\ell=1$
- \blacksquare $\ell=2$
- \blacklozenge $\ell=3$
- fit

$$a_0 = -4.8722 \mu \text{ Hz}$$

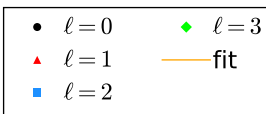
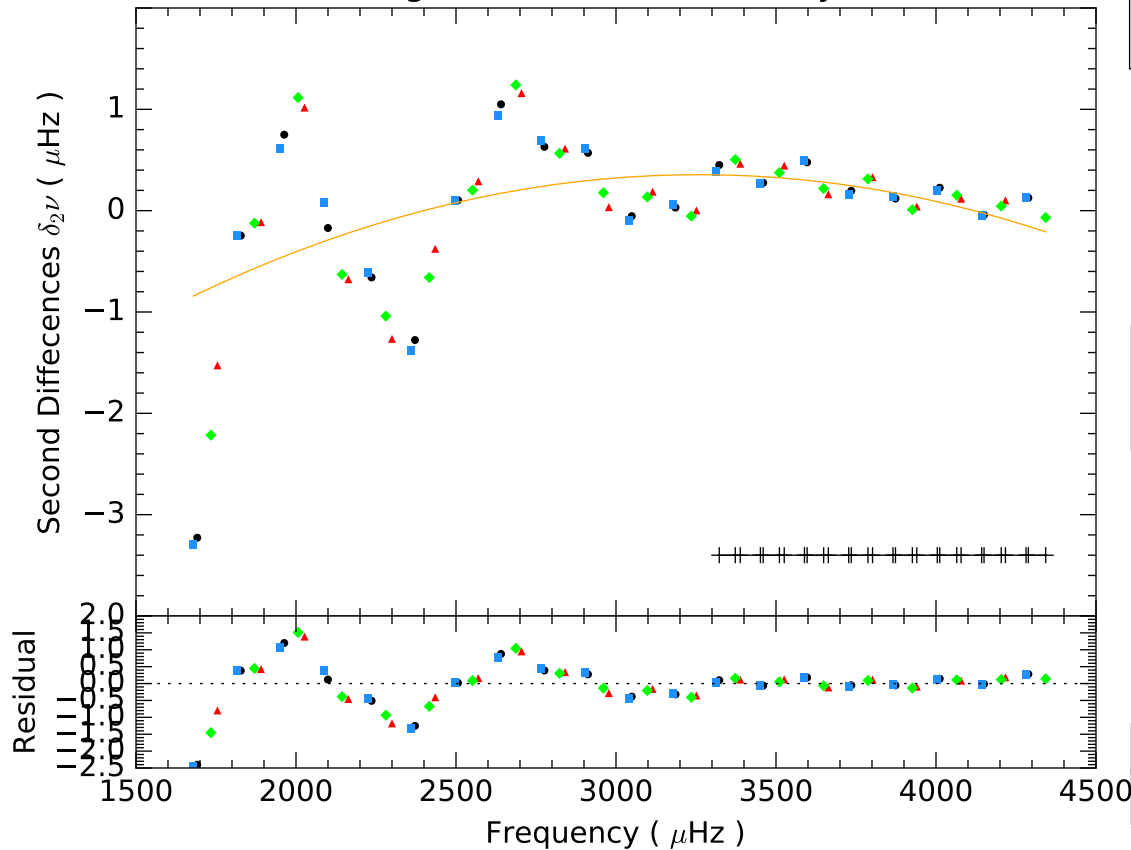
$$a_1 = 0.0031526$$

$$a_2 = -4.7518e-07 \mu\text{Hz}^{-1}$$

profile26

$$\chi^2_\nu (\text{dof} = 76) = 0.46905$$

Age after ZAMS: 4.510 Gyr



$$a_0 = -4.7419 \mu \text{ Hz}$$

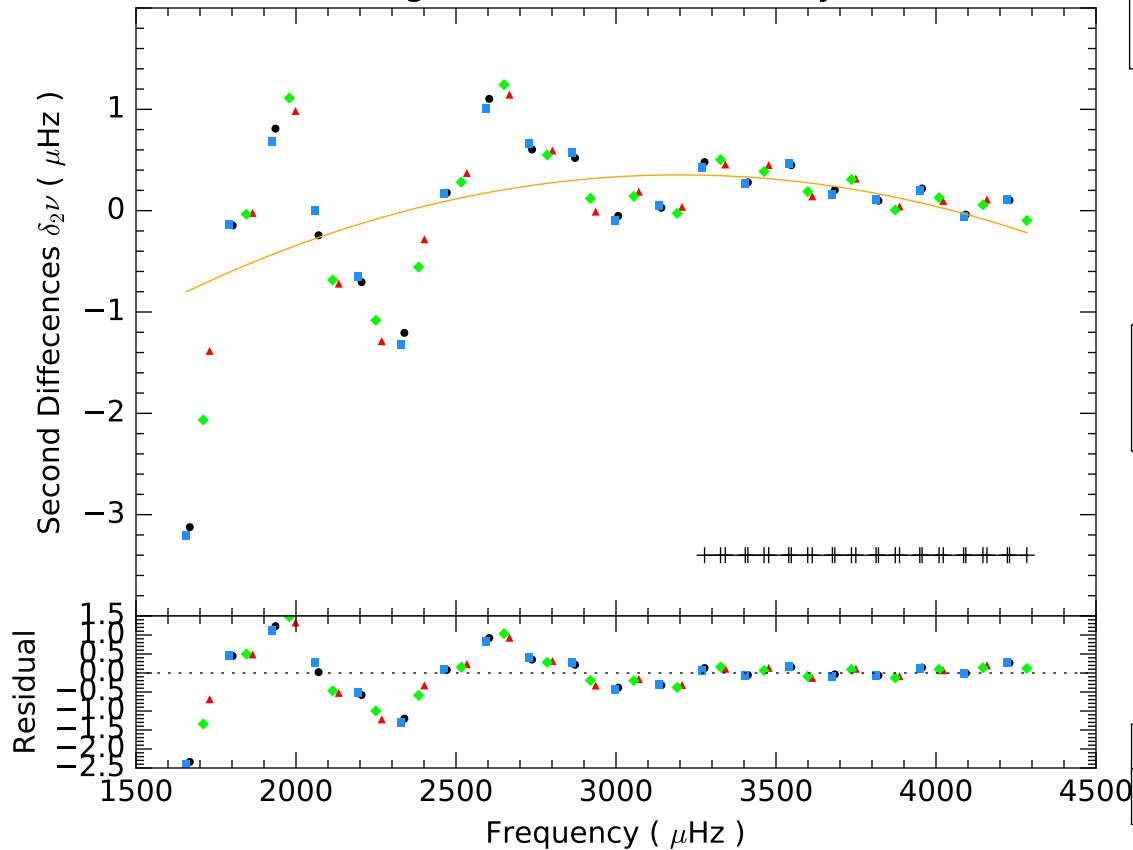
$$a_1 = 0.0031282$$

$$a_2 = -4.7995e-07 \mu \text{ Hz}^{-1}$$

profile27

$$\chi^2_\nu (\text{dof} = 76) = 0.4594$$

Age after ZAMS: 4.810 Gyr



$$a_0 = -4.6105 \mu \text{ Hz}$$

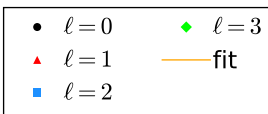
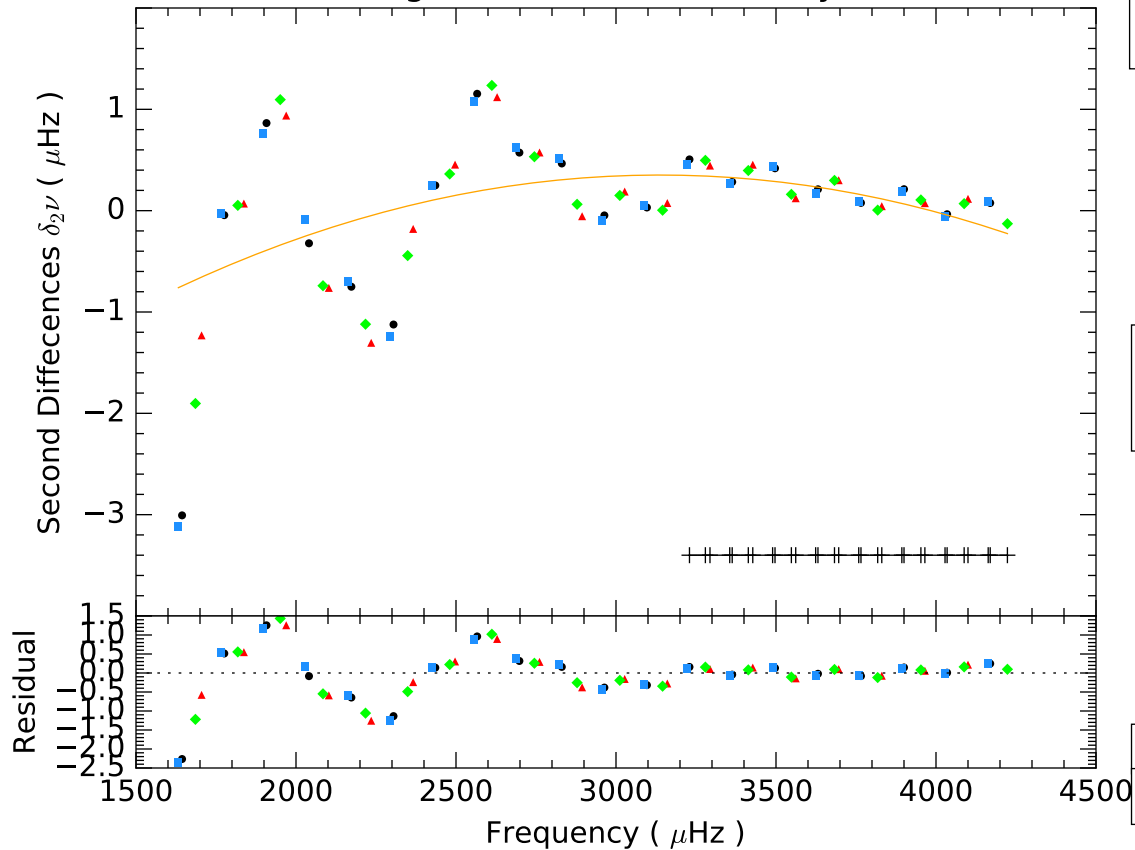
$$a_1 = 0.0031034$$

$$a_2 = -4.8506e-07 \mu\text{Hz}^{-1}$$

profile28

$$\chi^2_\nu (\text{dof} = 76) = 0.44852$$

Age after ZAMS: 5.110 Gyr



$$a_0 = -4.4783 \mu \text{ Hz}$$

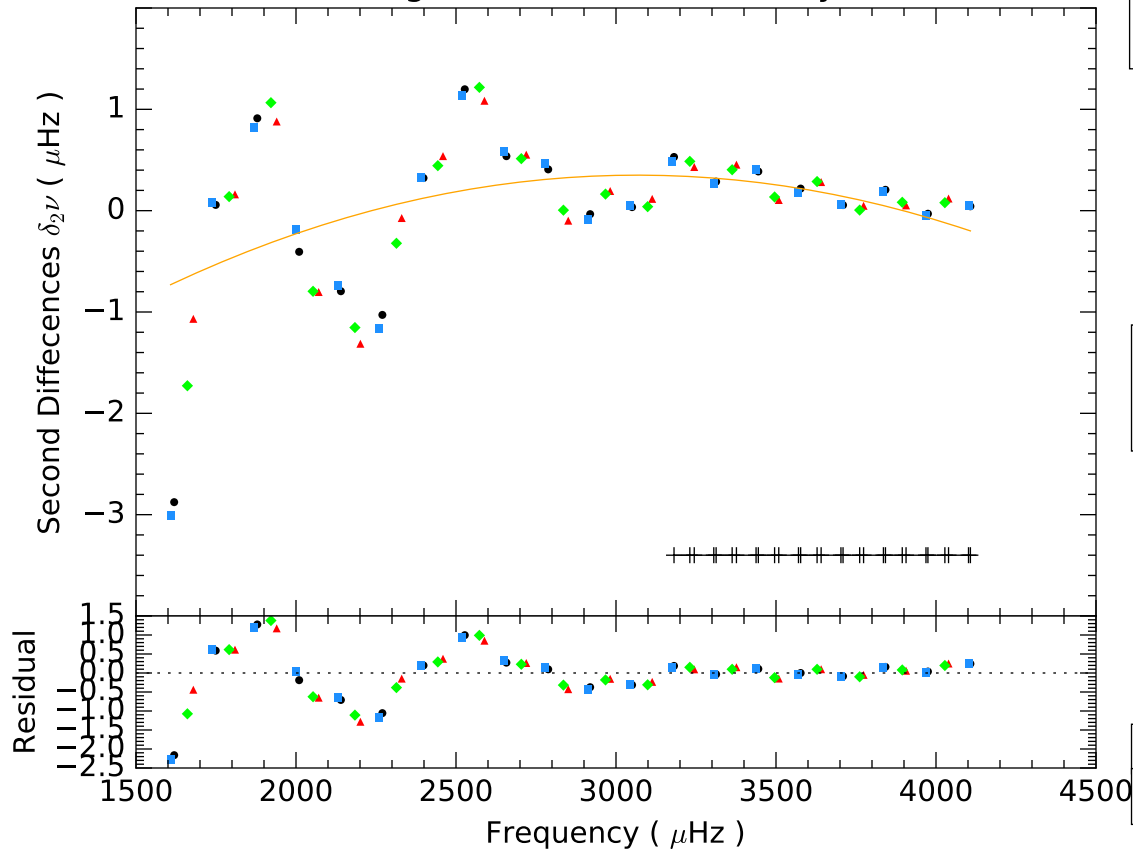
$$a_1 = 0.0030786$$

$$a_2 = -4.9059e-07 \mu \text{ Hz}^{-1}$$

profile29

$$\chi^2_\nu (\text{dof} = 76) = 0.43632$$

Age after ZAMS: 5.410 Gyr



$$a_0 = -4.4278 \mu \text{ Hz}$$

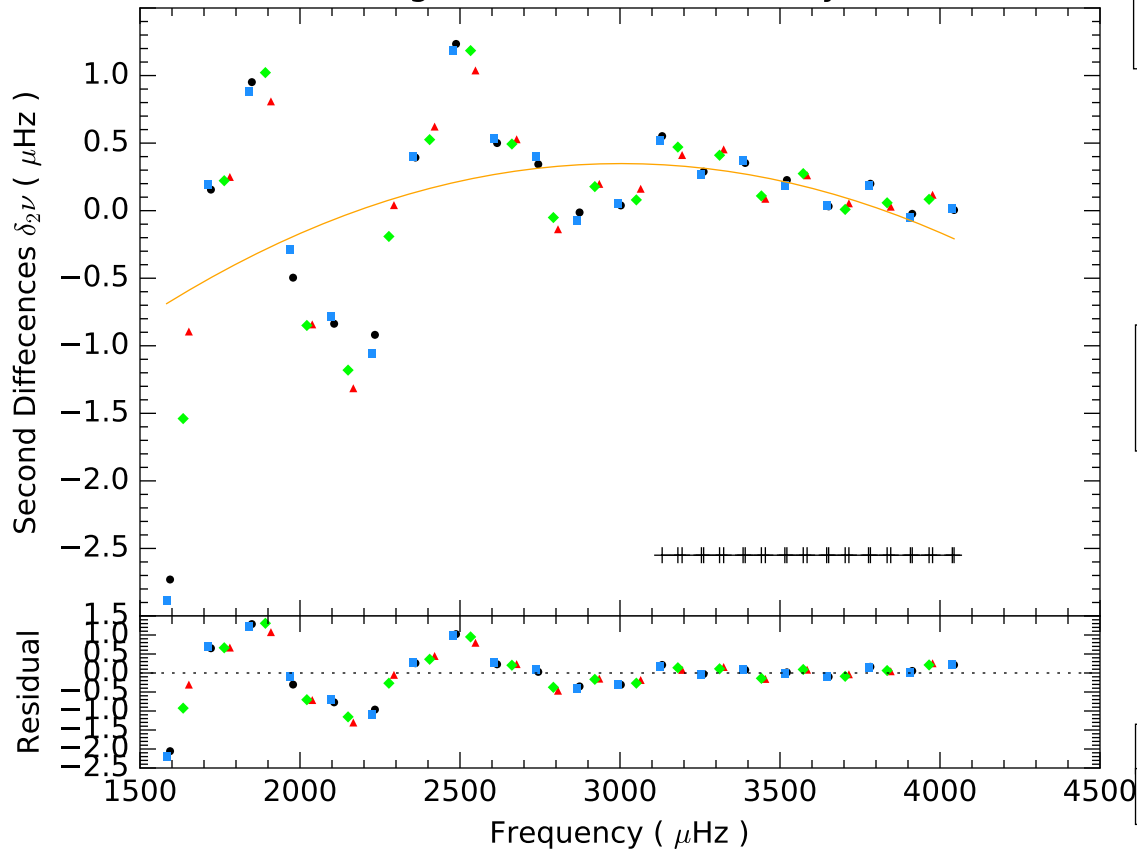
$$a_1 = 0.0031161$$

$$a_2 = -5.0803e-07 \mu\text{Hz}^{-1}$$

profile30

$$\chi^2_\nu(\text{dof} = 75) = 0.42803$$

Age after ZAMS: 5.710 Gyr



- $\ell=0$
- ▲ $\ell=1$
- $\ell=2$
- ◆ $\ell=3$
- fit

$$a_0 = -4.2881 \mu\text{Hz}$$

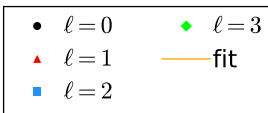
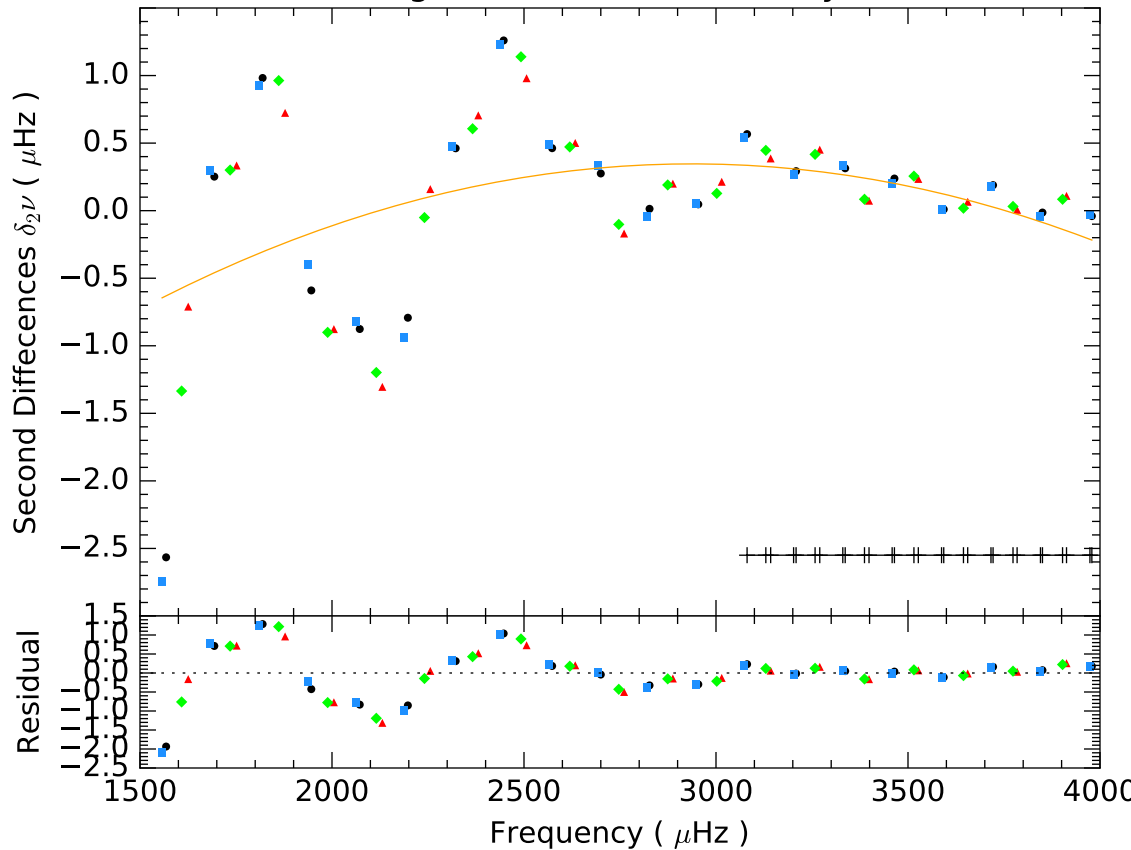
$$a_1 = 0.0030877$$

$$a_2 = -5.1404e-07 \mu\text{Hz}^{-1}$$

profile31

$$\chi^2_\nu(\text{dof} = 75) = 0.41341$$

Age after ZAMS: 6.010 Gyr

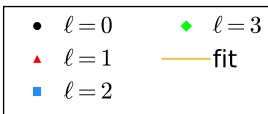
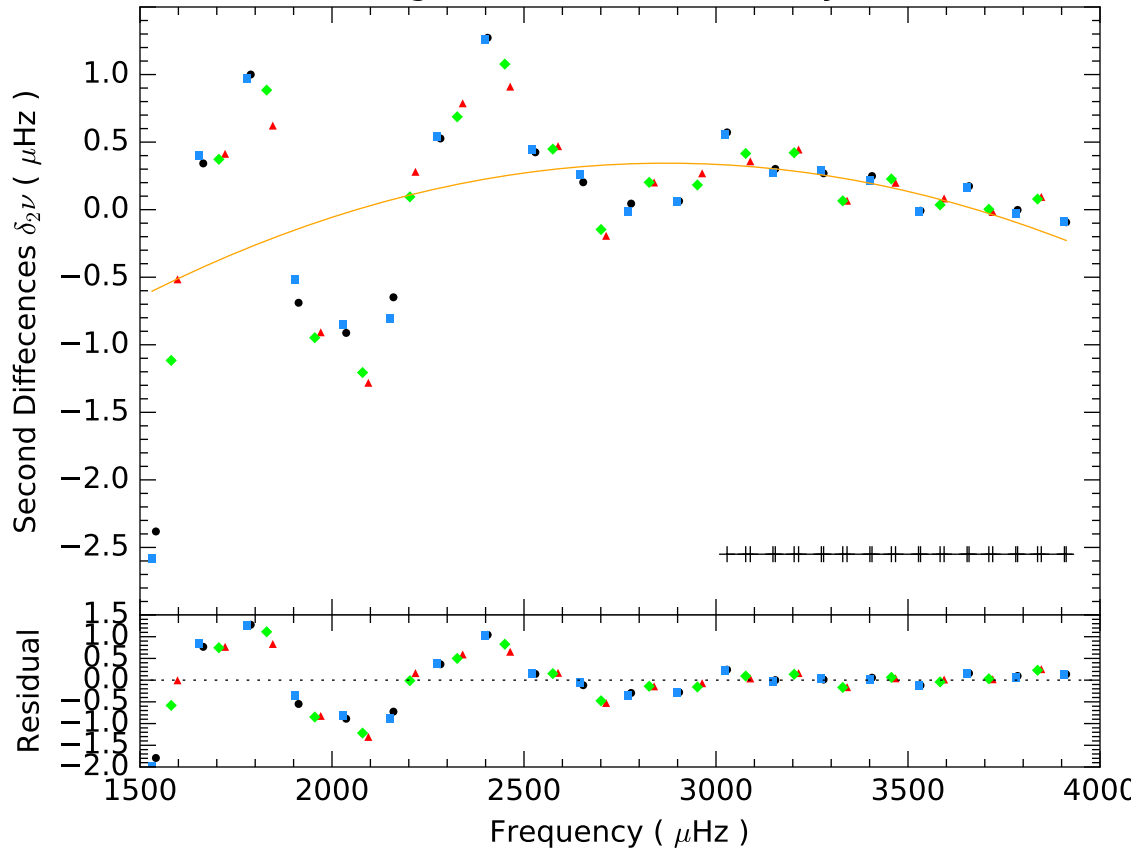


$$\begin{aligned}
 a_0 &= -4.1451 \mu \text{ Hz} \\
 a_1 &= 0.0030576 \\
 a_2 &= -5.2037e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile32

$$\chi^2_\nu(\text{dof} = 75) = 0.39749$$

Age after ZAMS: 6.310 Gyr

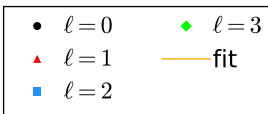
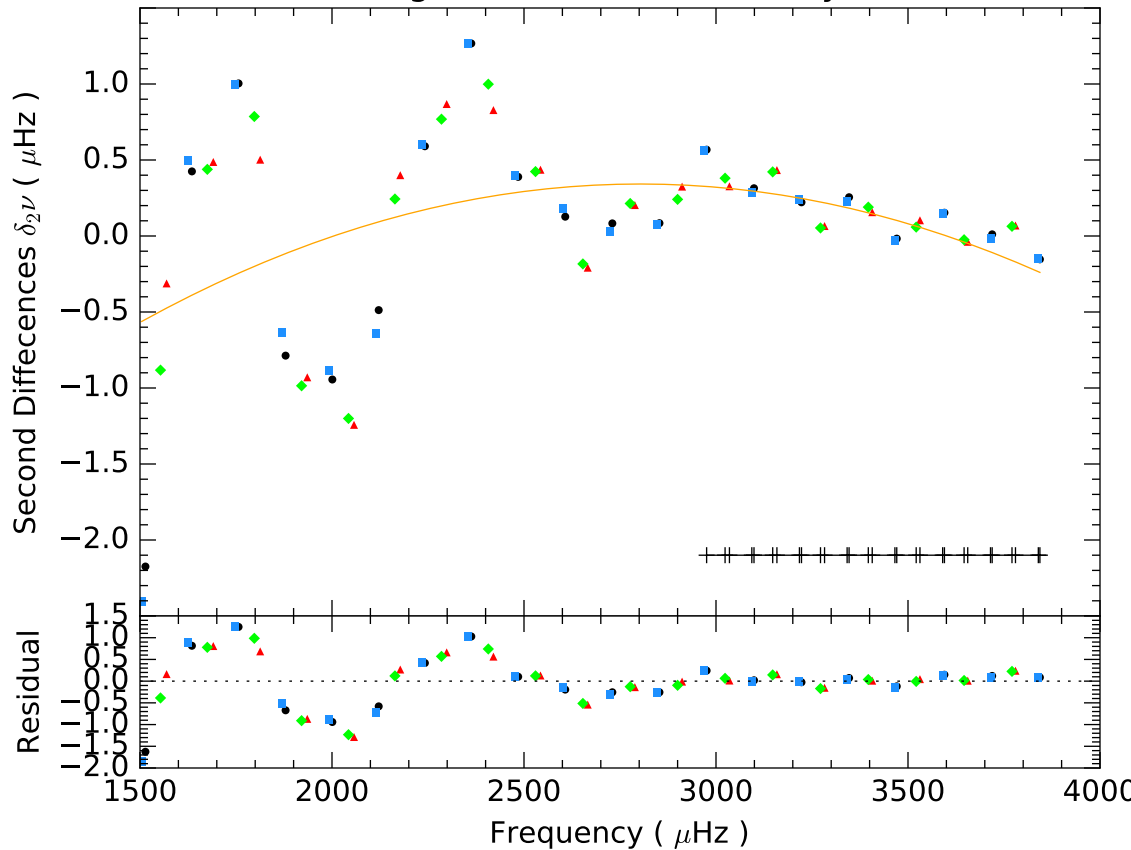


$$\begin{aligned}
 a_0 &= -4.0086 \mu\text{Hz} \\
 a_1 &= 0.0030322 \\
 a_2 &= -5.2805e-07 \mu\text{Hz}
 \end{aligned}$$

profile33

$$\chi^2_\nu(\text{dof} = 75) = 0.38026$$

Age after ZAMS: 6.610 Gyr

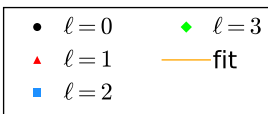
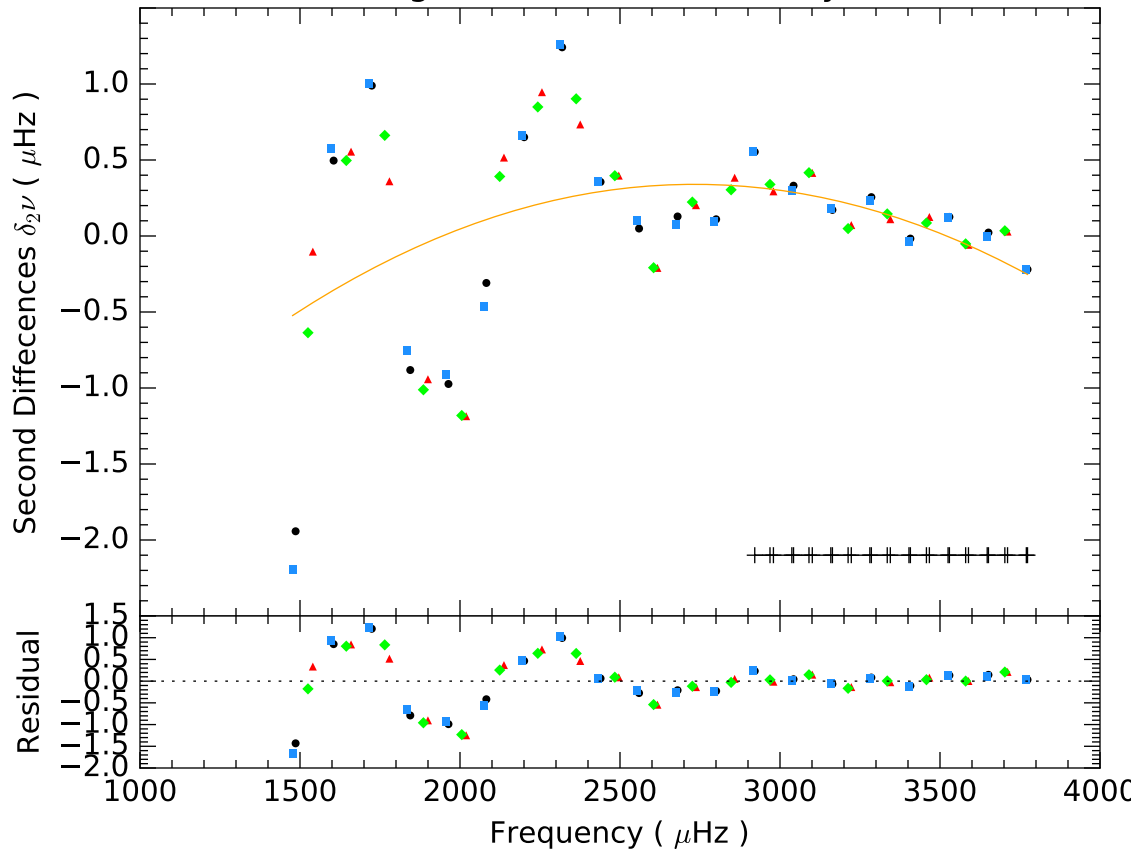


$$\begin{aligned}
 a_0 &= -3.8729 \mu\text{Hz} \\
 a_1 &= 0.0030079 \\
 a_2 &= -5.3662e-07 \mu\text{Hz}
 \end{aligned}$$

profile34

$$\chi^2_\nu(\text{dof} = 75) = 0.36193$$

Age after ZAMS: 6.910 Gyr

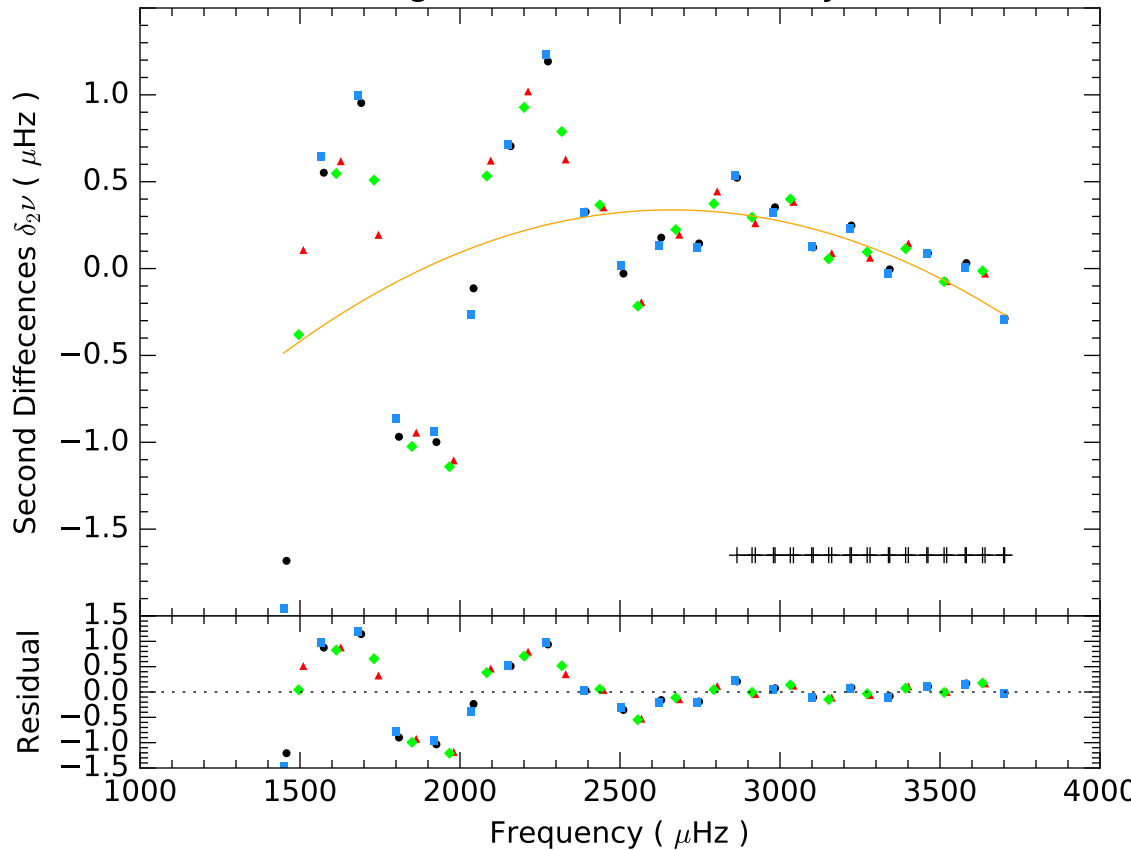


$a_0 = -3.7473 \mu \text{ Hz}$
 $a_1 = 0.0029912$
 $a_2 = -5.4726e-07 \mu\text{Hz}$

profile35

$\chi^2_\nu(\text{dof} = 75) = 0.34308$

Age after ZAMS: 7.210 Gyr



$$a_0 = -3.632 \mu\text{Hz}$$

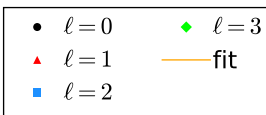
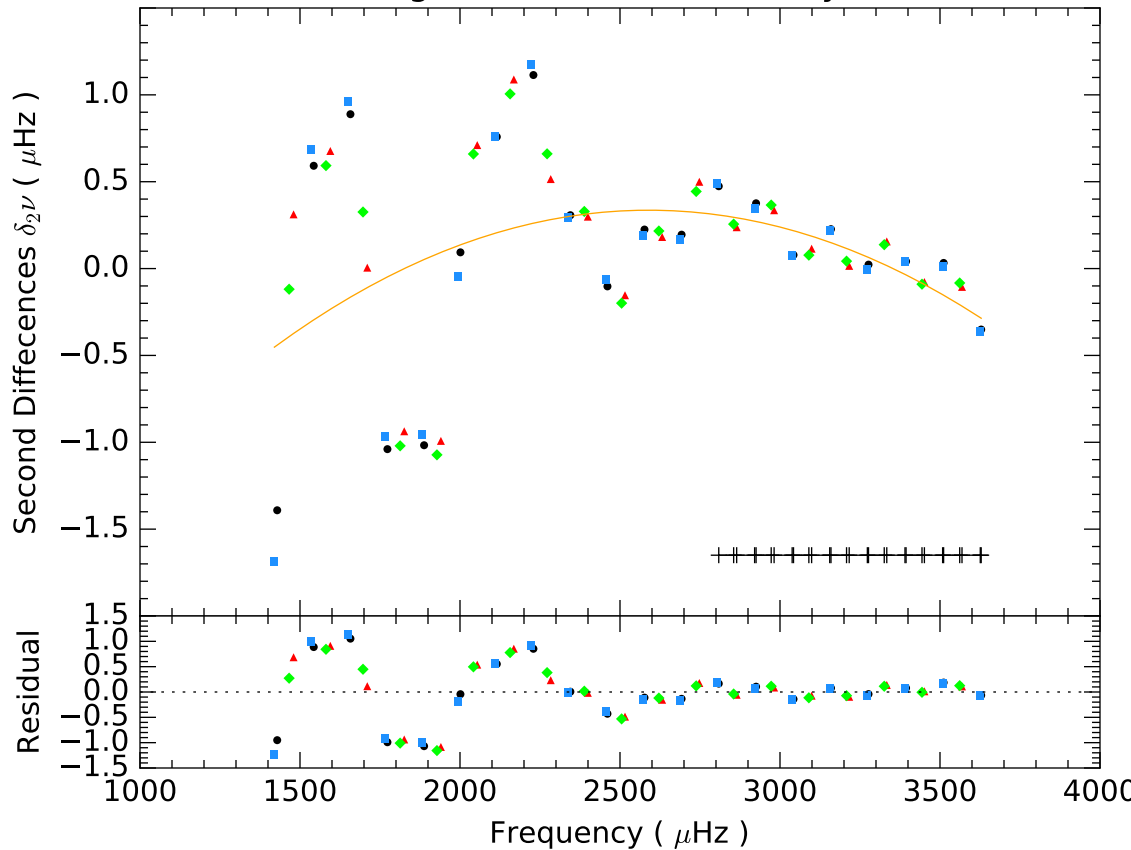
$$a_1 = 0.0029827$$

$$a_2 = -5.6022e-07 \mu\text{Hz}^{-1}$$

profile36

$$\chi^2_\nu(\text{dof} = 75) = 0.32404$$

Age after ZAMS: 7.510 Gyr

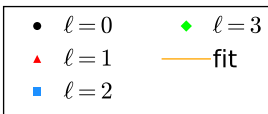
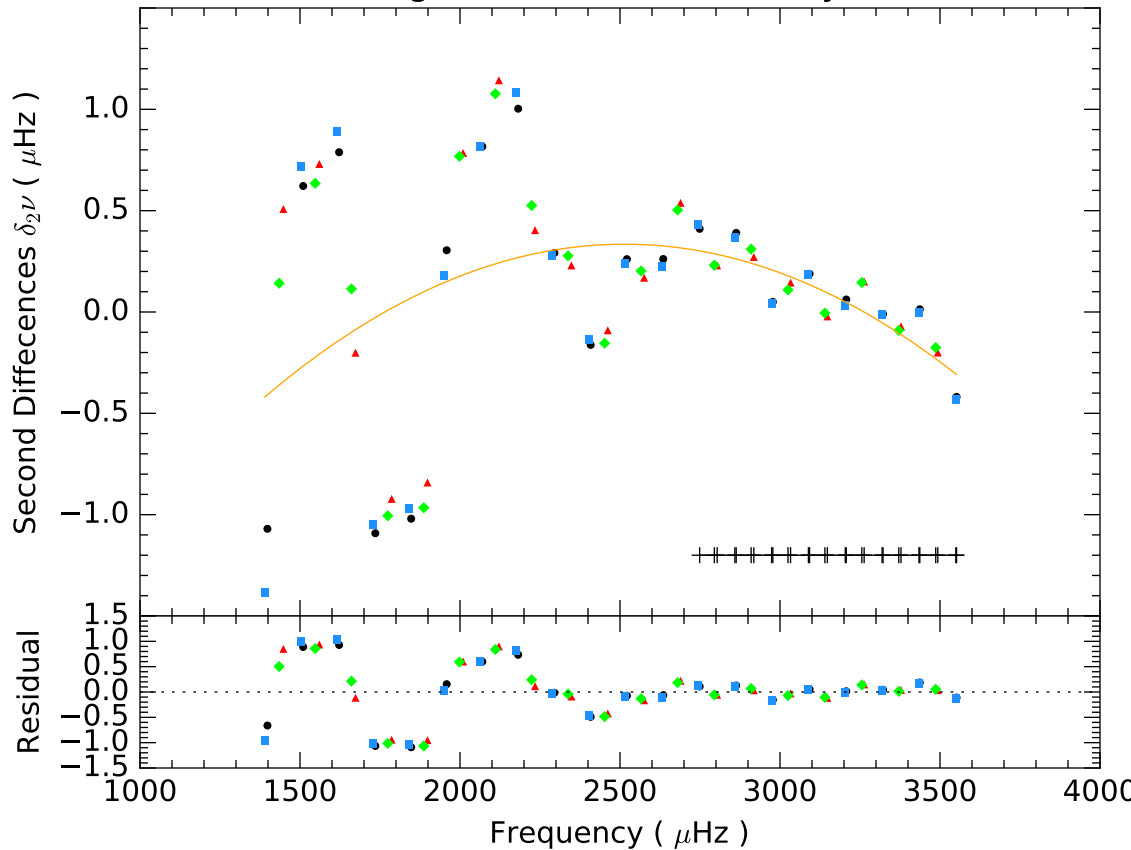


$$\begin{aligned}
 a_0 &= -3.528 \mu\text{Hz} \\
 a_1 &= 0.0029842 \\
 a_2 &= -5.7616e-07 \mu\text{Hz}
 \end{aligned}$$

profile37

$$\chi^2_\nu(\text{dof} = 75) = 0.30549$$

Age after ZAMS: 7.810 Gyr

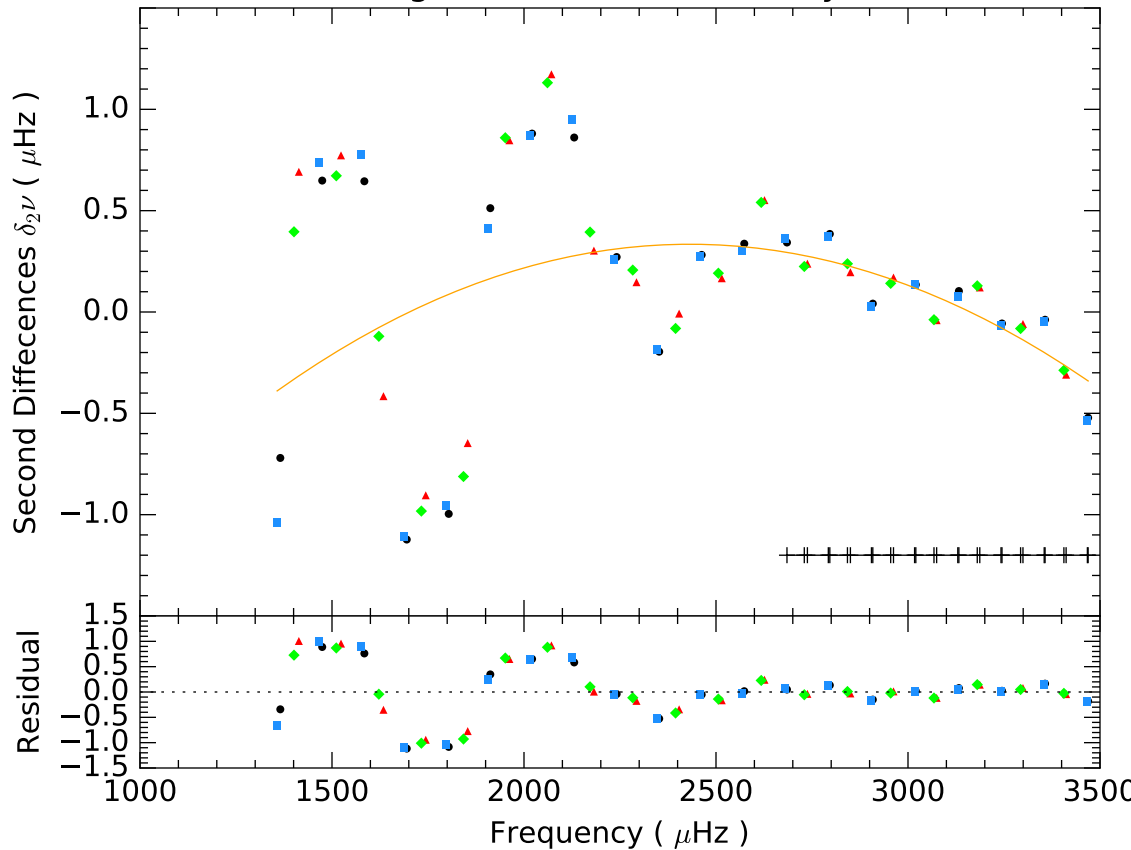


$$\begin{aligned}
 a_0 &= -3.4372 \mu\text{Hz} \\
 a_1 &= 0.003001 \\
 a_2 &= -5.9689e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile38

$$\chi^2_\nu (\text{dof} = 75) = 0.28909$$

Age after ZAMS: 8.110 Gyr



- $\ell=0$
- ▲ $\ell=1$
- $\ell=2$
- ◆ $\ell=3$
- fit

$$a_0 = -3.372 \mu\text{Hz}$$

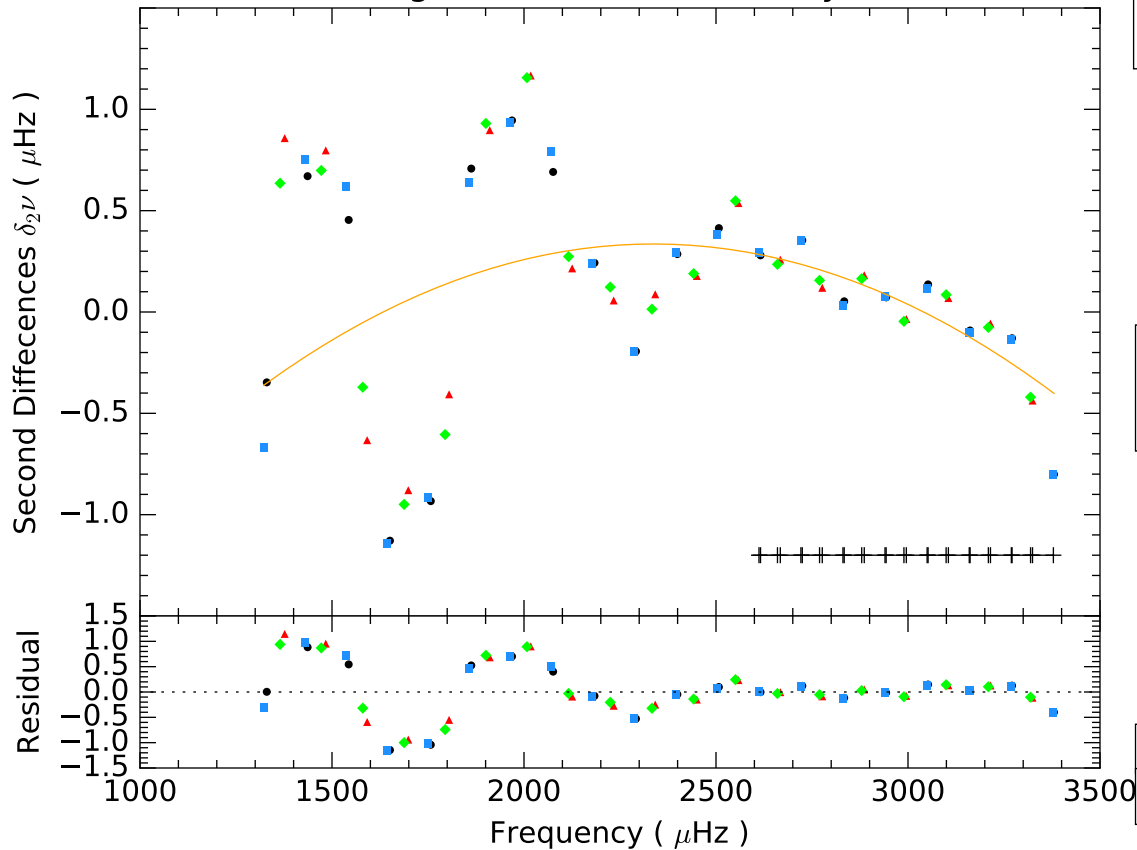
$$a_1 = 0.0030484$$

$$a_2 = -6.268e-07 \mu\text{Hz}^{-1}$$

profile39

$$\chi^2_\nu(\text{dof} = 75) = 0.27717$$

Age after ZAMS: 8.410 Gyr



- $\ell=0$
- ▲ $\ell=1$
- $\ell=2$
- ◆ $\ell=3$
- fit

$$a_0 = -3.3628 \mu\text{Hz}$$

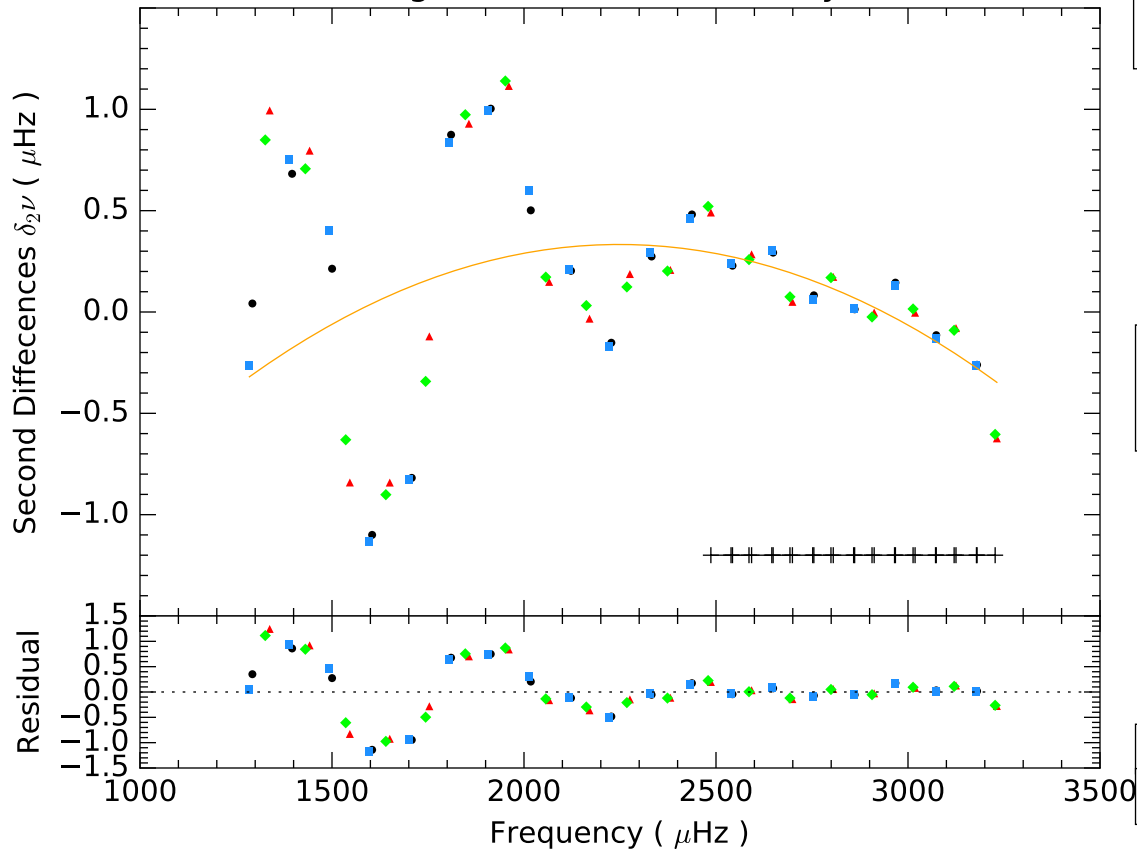
$$a_1 = 0.0031652$$

$$a_2 = -6.7722e-07 \mu\text{Hz}^{-1}$$

profile40

$$\chi^2_\nu(\text{dof} = 75) = 0.27356$$

Age after ZAMS: 8.708 Gyr



- \bullet $\ell=0$
- \blacktriangle $\ell=1$
- \blacksquare $\ell=2$
- \blacklozenge $\ell=3$
- fit

$$a_0 = -3.2233 \mu\text{Hz}$$

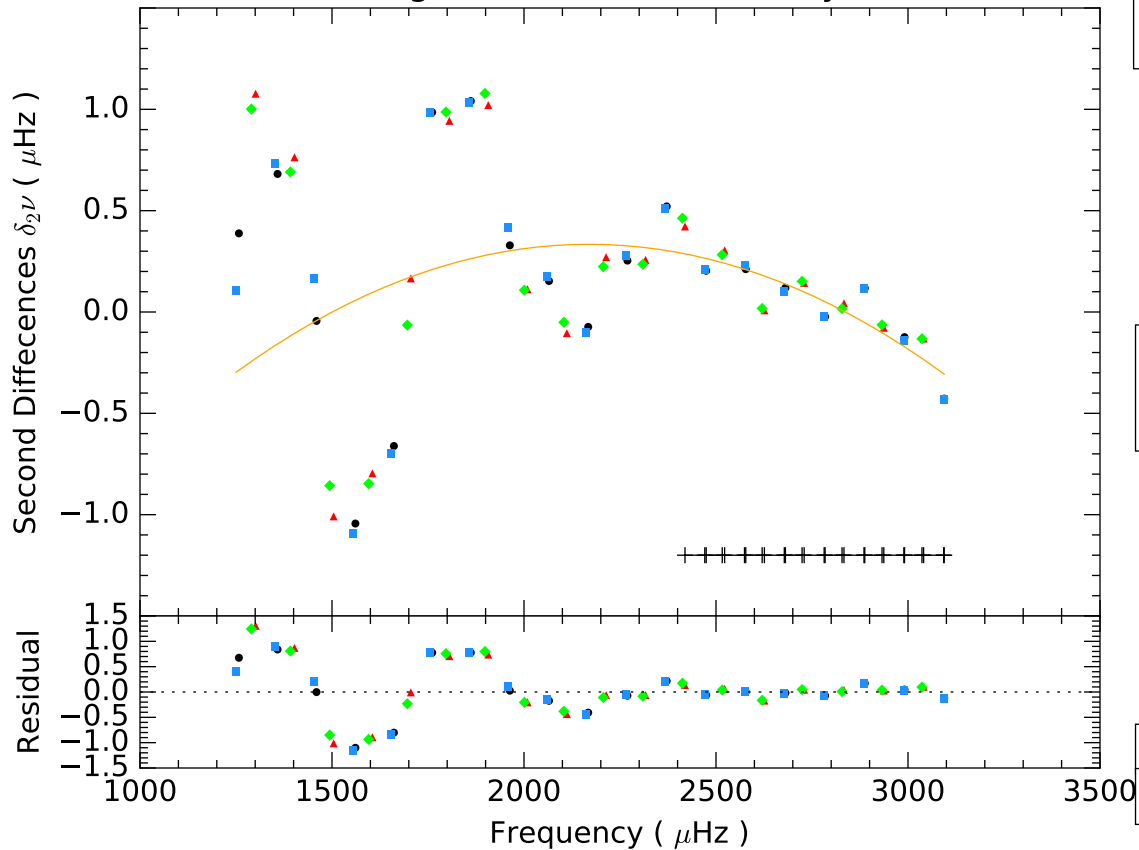
$$a_1 = 0.0031639$$

$$a_2 = -7.0367e-07 \mu\text{Hz}^{-1}$$

profile41

$$\chi^2_\nu(\text{dof} = 73) = 0.27425$$

Age after ZAMS: 8.972 Gyr

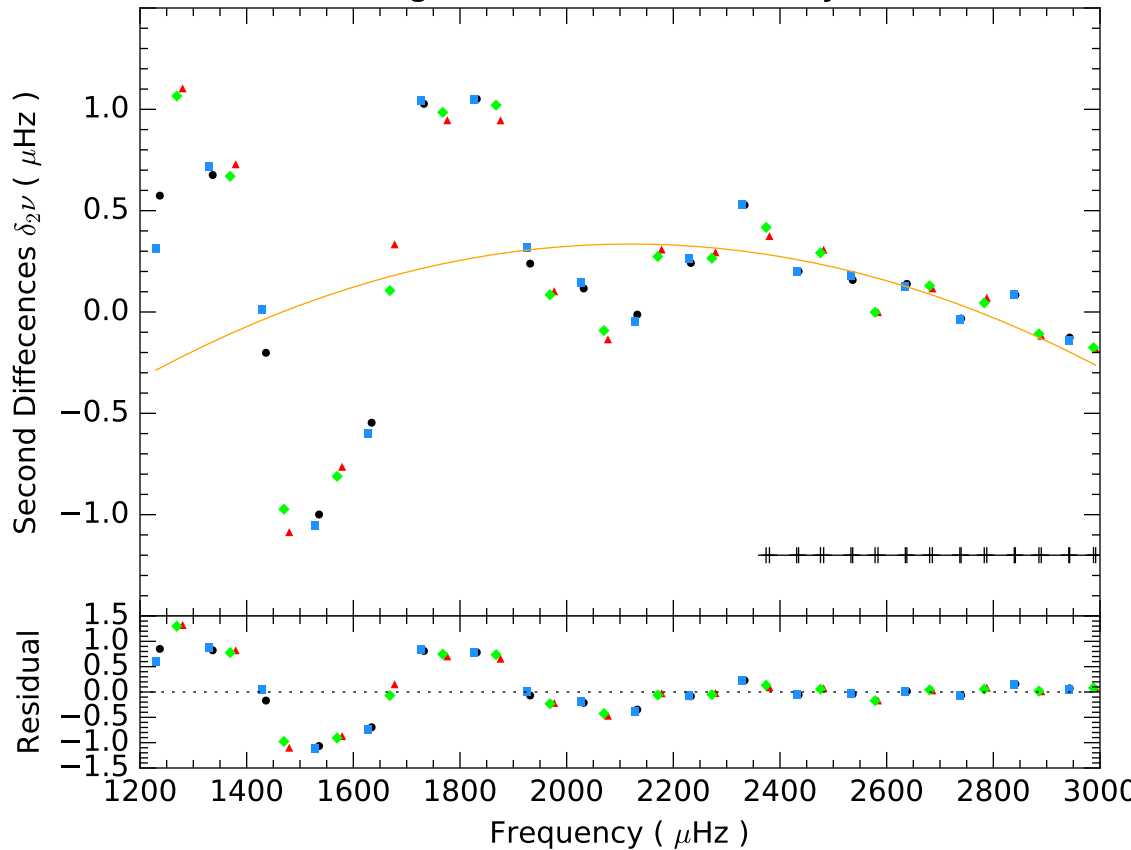


$$\begin{aligned} a_0 &= -3.1845 \mu\text{Hz} \\ a_1 &= 0.0032446 \\ a_2 &= -7.4801e-07 \mu\text{Hz} \end{aligned}$$

profile42

$$\chi^2_\nu (\text{dof} = 71) = 0.28249$$

Age after ZAMS: 9.117 Gyr



- $\ell = 0$
- ▲ $\ell = 1$
- $\ell = 2$
- ◆ $\ell = 3$
- fit

$$a_0 = -3.1963 \mu\text{Hz}$$

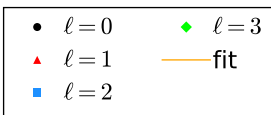
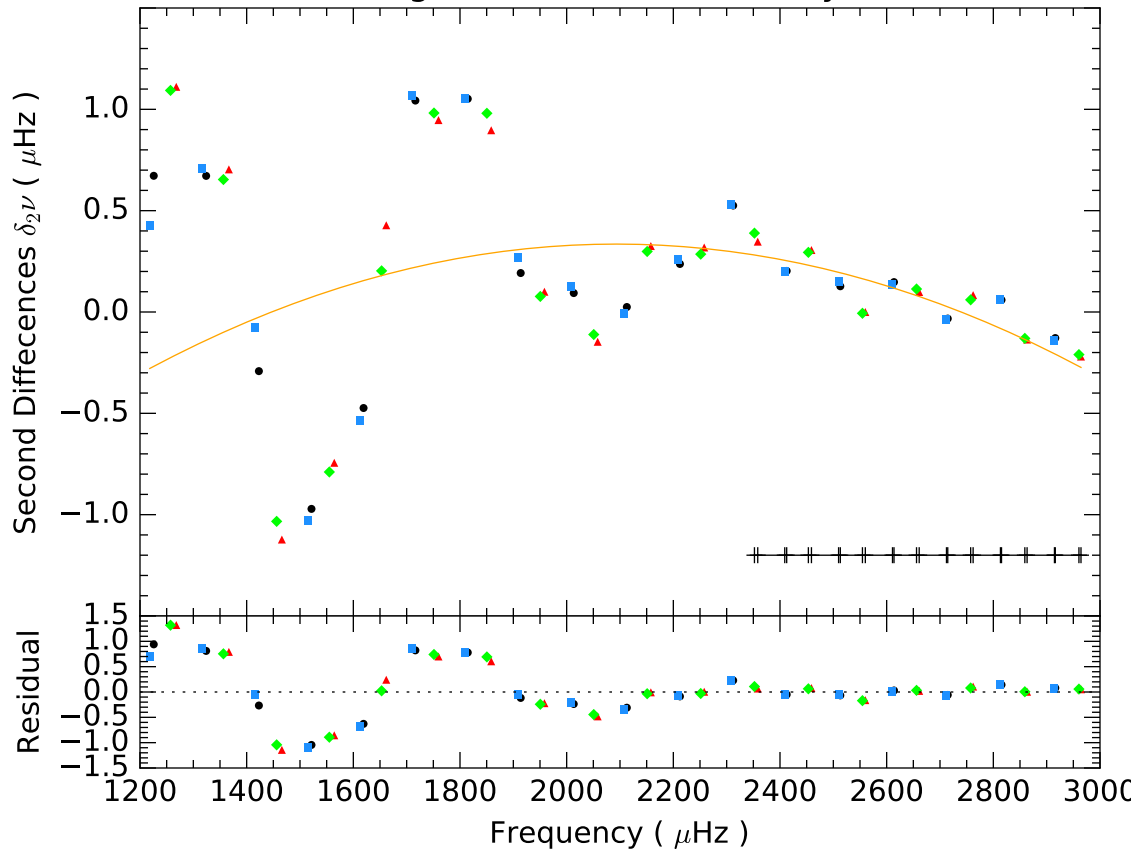
$$a_1 = 0.003332$$

$$a_2 = -7.8591e-07 \mu\text{Hz}^{-1}$$

profile43

$$\chi^2_\nu(\text{dof} = 69) = 0.29325$$

Age after ZAMS: 9.197 Gyr

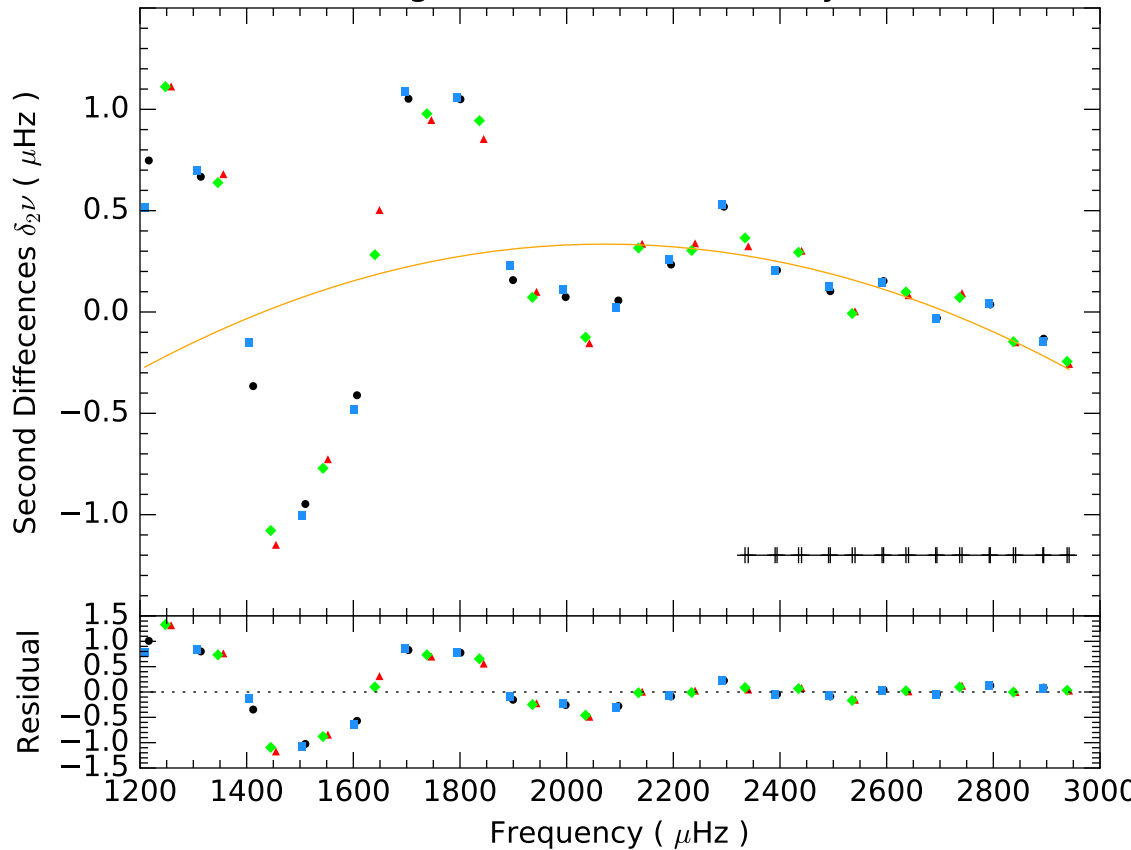


$$\begin{aligned}
 a_0 &= -3.1777 \mu \text{ Hz} \\
 a_1 &= 0.0033564 \\
 a_2 &= -8.0176e-07 \mu \text{ Hz}
 \end{aligned}$$

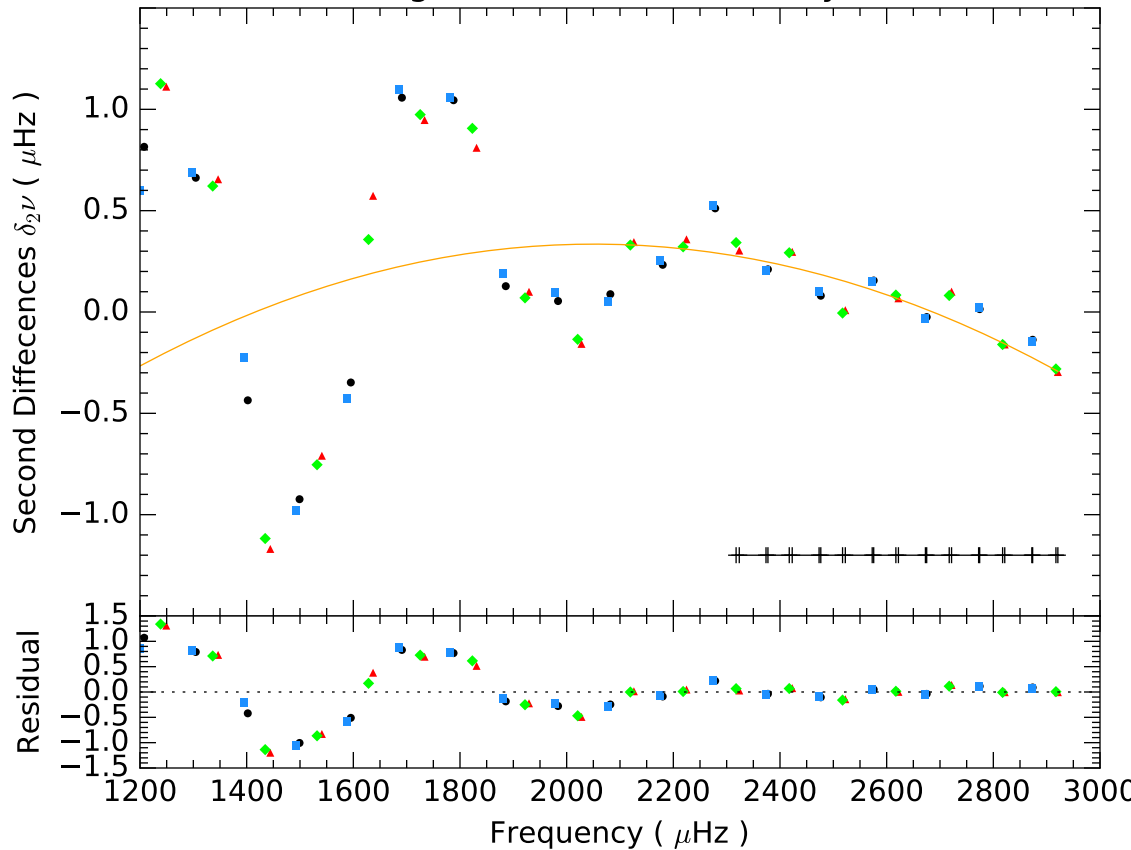
profile44

$$\chi^2_\nu (\text{dof} = 69) = 0.29477$$

Age after ZAMS: 9.260 Gyr



Age after ZAMS: 9.319 Gyr



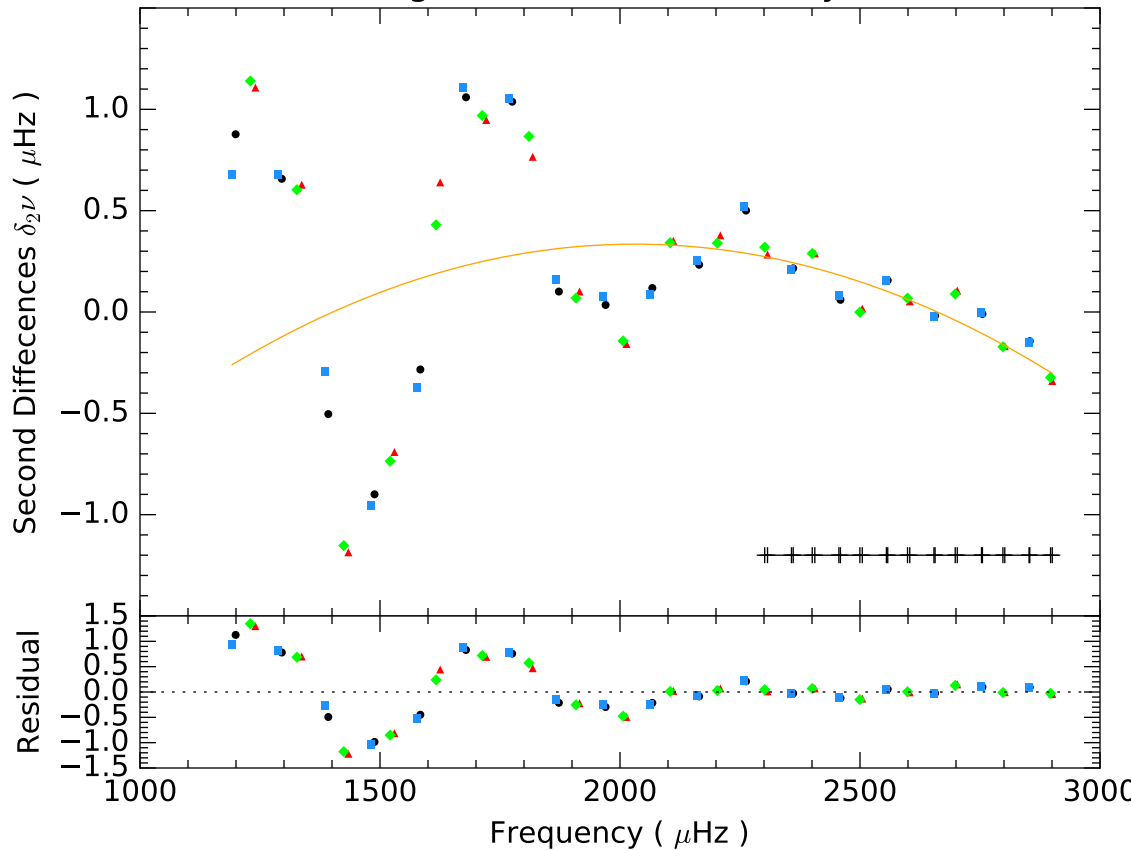
\bullet $\ell=0$ \blacklozenge $\ell=3$
 \blacktriangle $\ell=1$ — fit
 \blacksquare $\ell=2$

$a_0 = -3.1565 \mu \text{ Hz}$
 $a_1 = 0.0034042$
 $a_2 = -8.2976e-07 \mu\text{Hz}^{-1}$

profile46

$\chi^2_\nu(\text{dof} = 69) = 0.29755$

Age after ZAMS: 9.376 Gyr



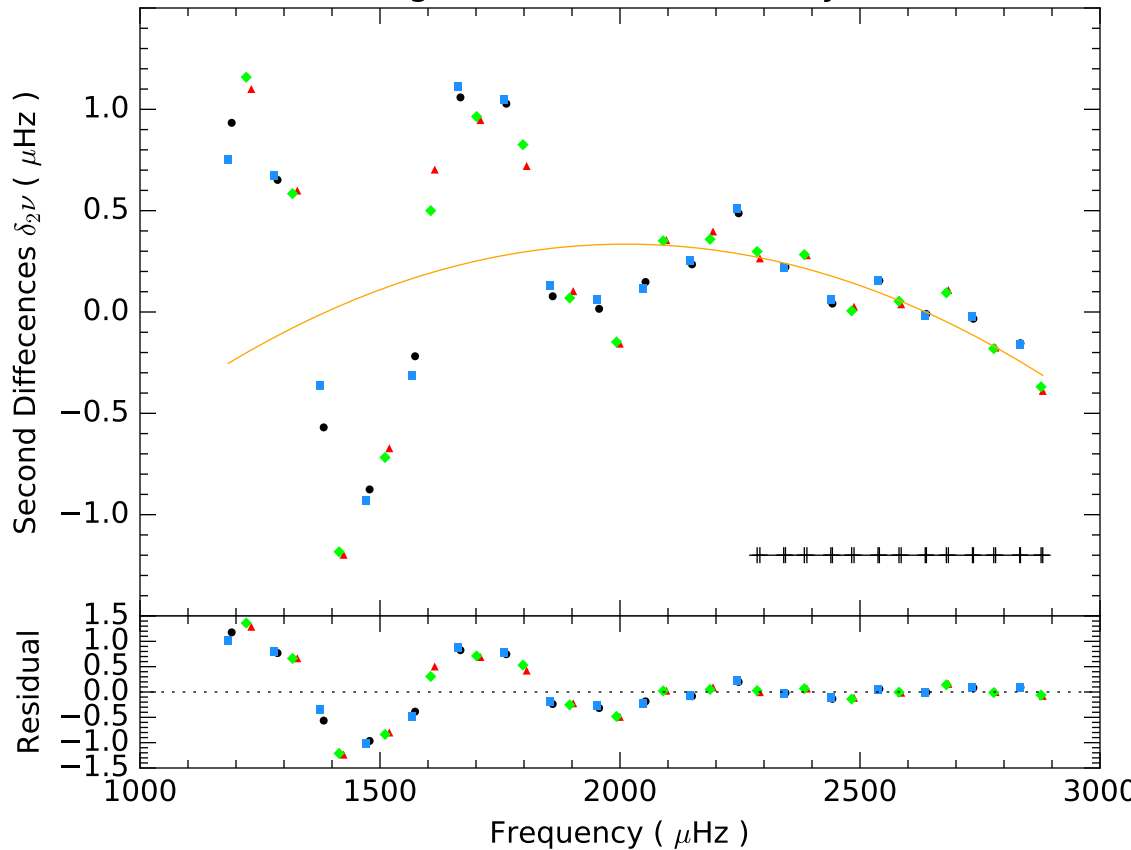
\bullet $\ell=0$ \blacklozenge $\ell=3$
 \blacktriangle $\ell=1$ — fit
 \blacksquare $\ell=2$

$a_0 = -3.1485 \mu\text{Hz}$
 $a_1 = 0.0034294$
 $a_2 = -8.4405e-07 \mu\text{Hz}^{-1}$

profile47

$\chi^2_\nu(\text{dof} = 69) = 0.29903$

Age after ZAMS: 9.430 Gyr



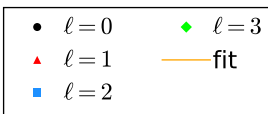
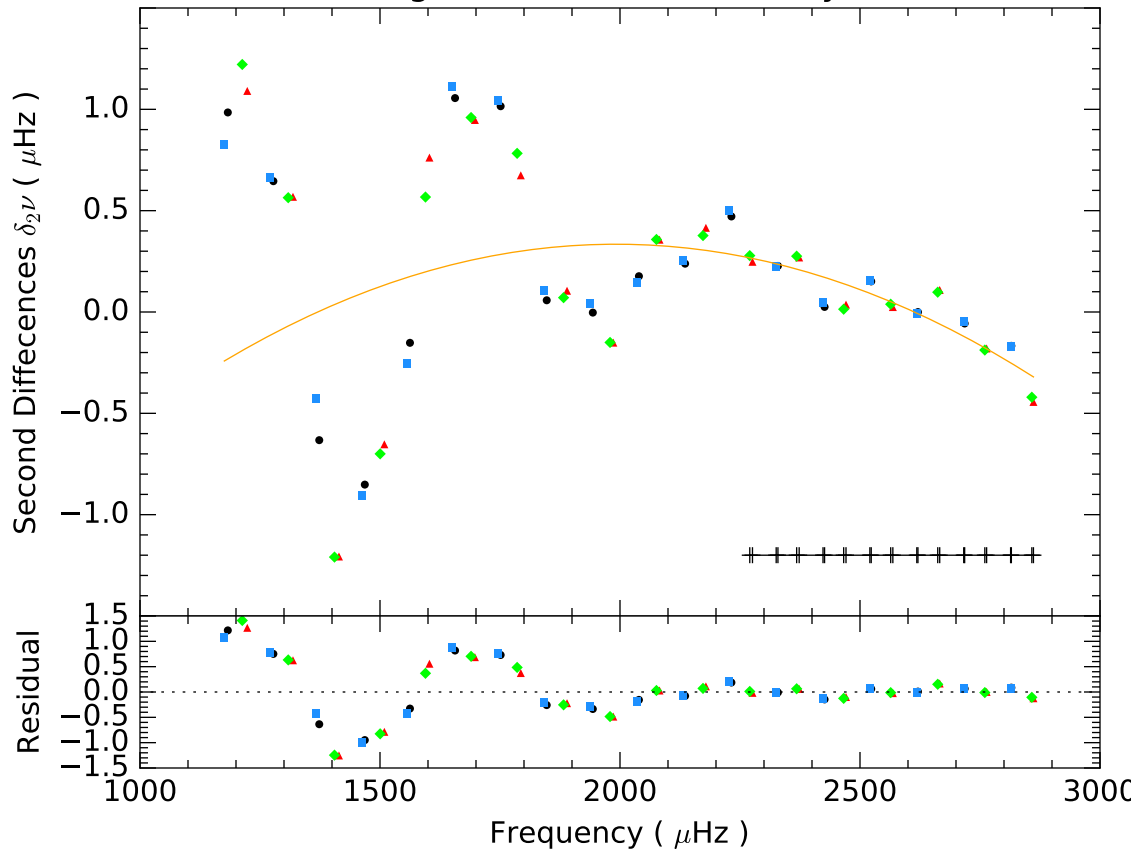
\bullet $\ell=0$ \blacklozenge $\ell=3$
 \blacktriangle $\ell=1$ — fit
 \blacksquare $\ell=2$

$a_0 = -3.1378 \mu \text{ Hz}$
 $a_1 = 0.0034519$
 $a_2 = -8.5781e-07 \mu\text{Hz}^{-1}$

profile48

$\chi^2_\nu(\text{dof} = 69) = 0.30077$

Age after ZAMS: 9.483 Gyr

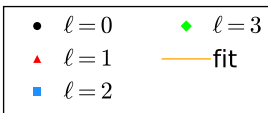
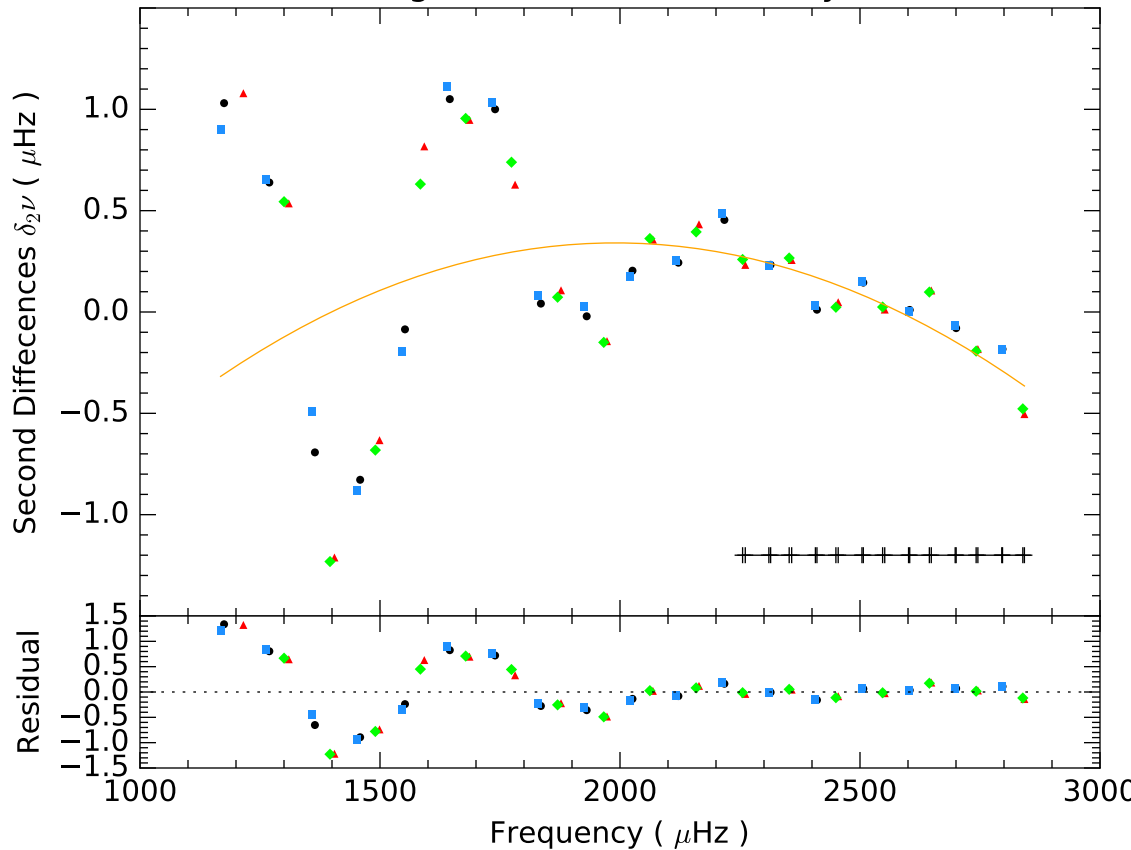


$a_0 = -3.0988 \mu\text{Hz}$
 $a_1 = 0.0034478$
 $a_2 = -8.6557e-07 \mu\text{Hz}^{-1}$

profile49

$\chi^2_\nu(\text{dof} = 69) = 0.30378$

Age after ZAMS: 9.533 Gyr

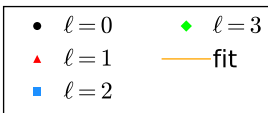
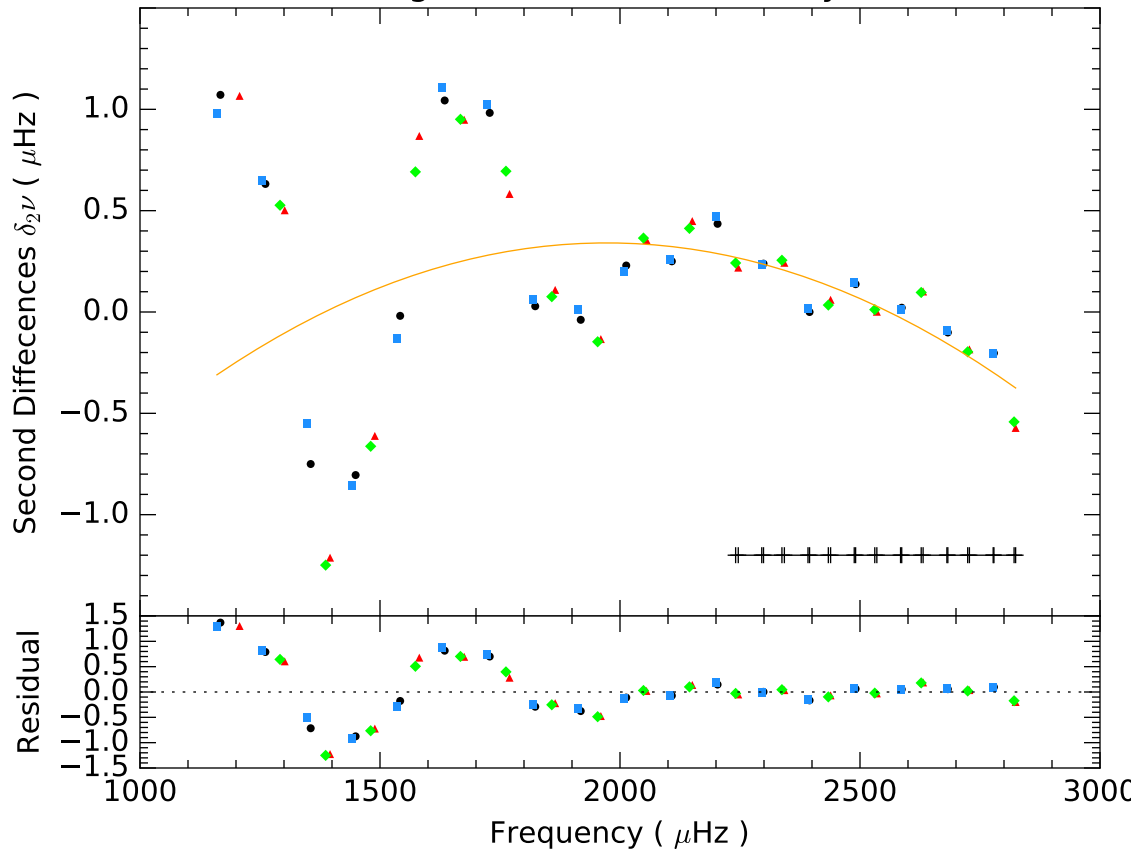


$$\begin{aligned}
 a_0 &= -3.5149 \mu \text{ Hz} \\
 a_1 &= 0.0038738 \\
 a_2 &= -9.7296e-07 \mu\text{Hz}
 \end{aligned}$$

profile50

$$\chi^2_\nu(\text{dof} = 68) = 0.28837$$

Age after ZAMS: 9.581 Gyr



$$a_0 = -3.4975 \mu \text{ Hz}$$

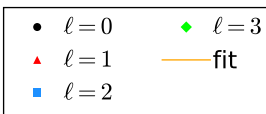
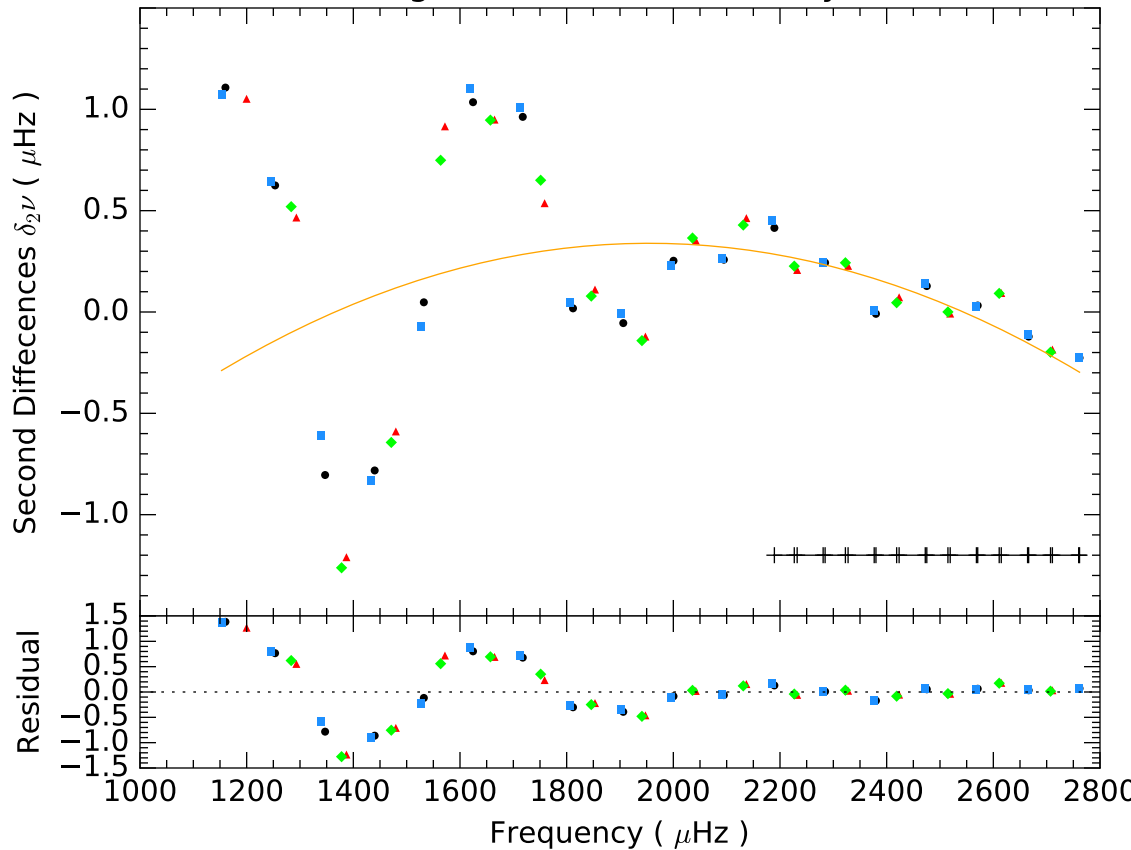
$$a_1 = 0.003892$$

$$a_2 = -9.8657e-07 \mu\text{Hz}^{-1}$$

profile51

$$\chi^2_\nu(\text{dof} = 68) = 0.29032$$

Age after ZAMS: 9.627 Gyr



$$a_0 = -3.3928 \mu \text{ Hz}$$

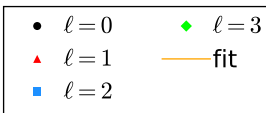
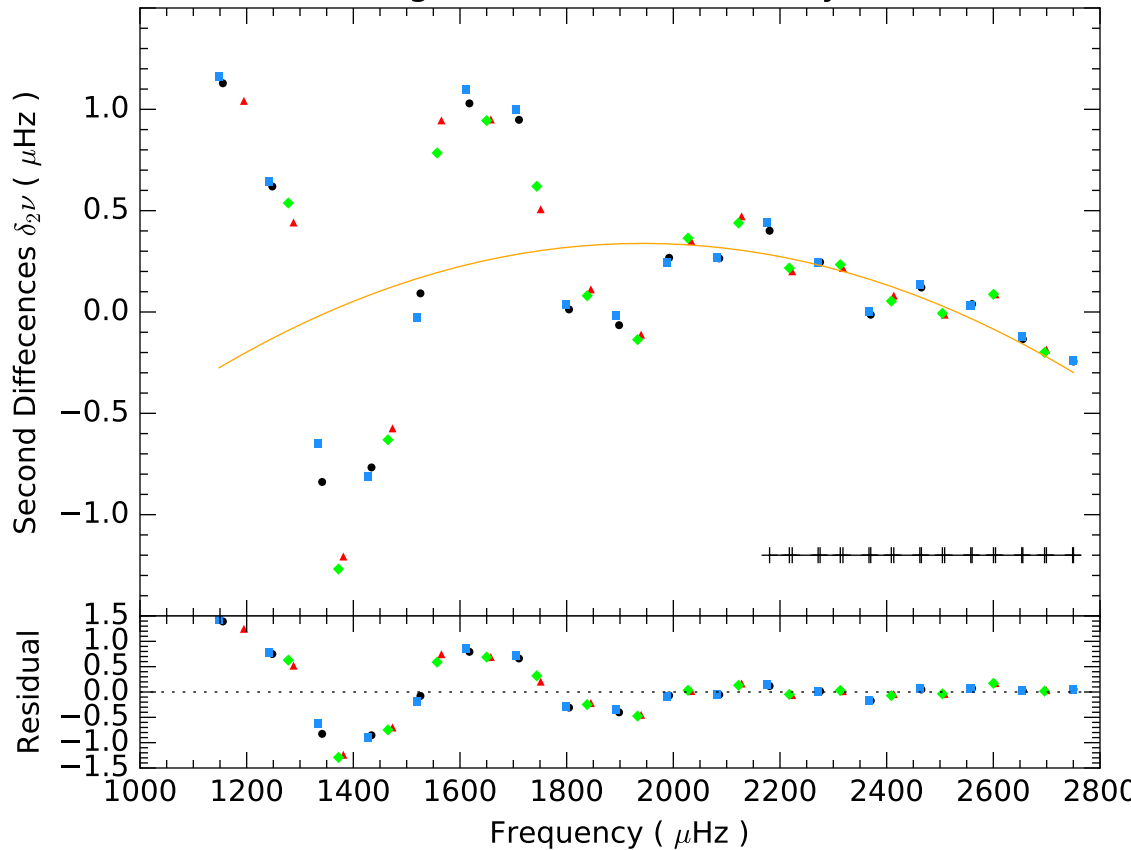
$$a_1 = 0.0038185$$

$$a_2 = -9.7679e-07 \mu \text{ Hz}^{-1}$$

profile52

$$\chi^2_\nu (\text{dof} = 66) = 0.29896$$

Age after ZAMS: 9.657 Gyr



$$\begin{aligned}
 a_0 &= -3.3357 \mu \text{ Hz} \\
 a_1 &= 0.0037845 \\
 a_2 &= -9.7455e-07 \mu\text{Hz}
 \end{aligned}$$

profile53

$$\chi^2_\nu(\text{dof} = 66) = 0.30124$$