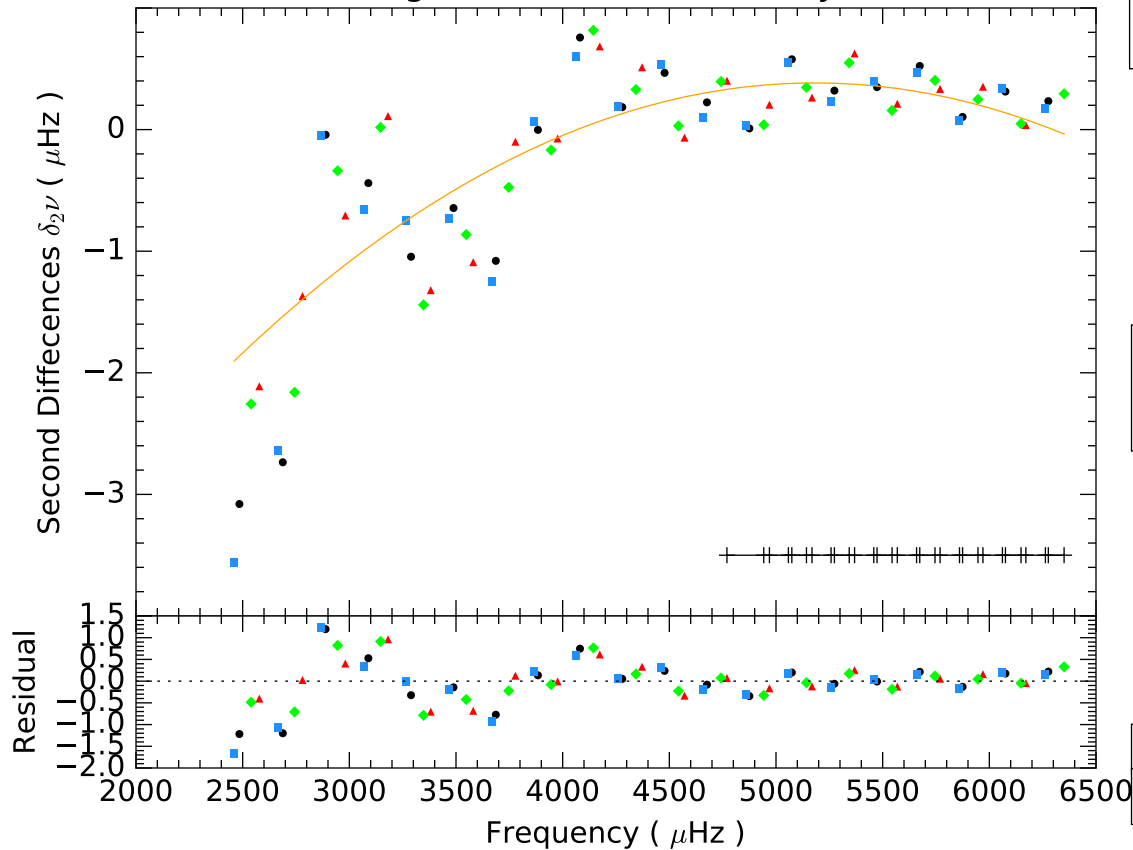


Age after ZAMS: 0.000 Gyr



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

$$a_0 = -7.9015 \mu \text{ Hz}$$

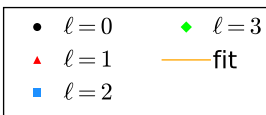
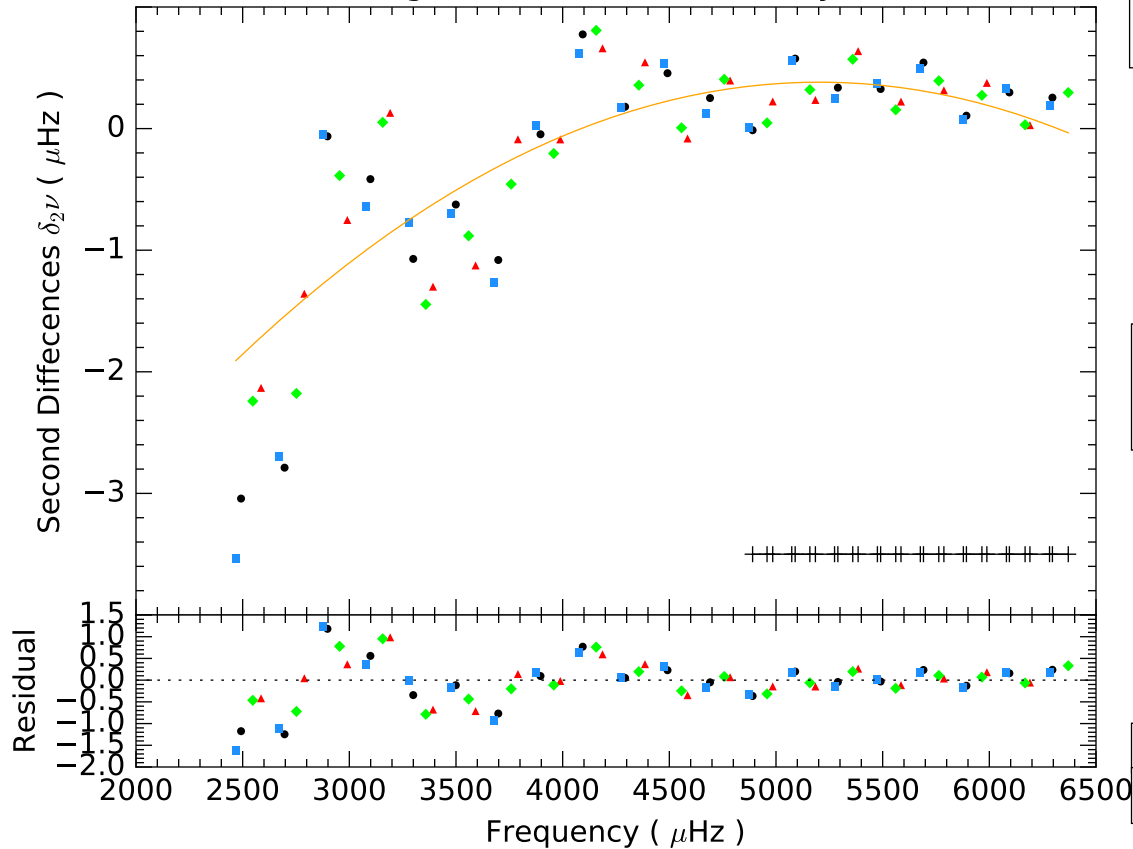
$$a_1 = 0.0031971$$

$$a_2 = -3.0842e-07 \mu\text{Hz}^{-1}$$

profile1

$$\chi^2_\nu (\text{dof} = 76) = 0.27073$$

Age after ZAMS: 0.000 Gyr

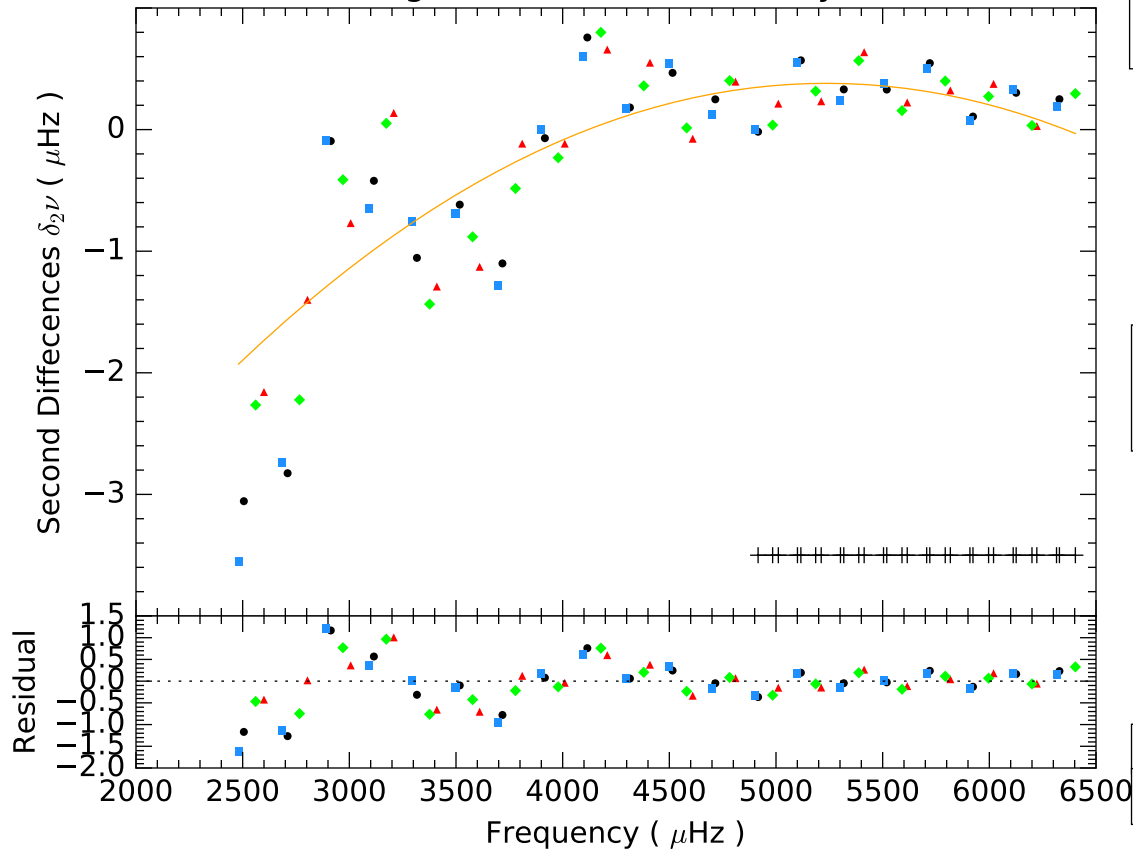


$$\begin{aligned}
 a_0 &= -7.9045 \mu \text{ Hz} \\
 a_1 &= 0.0031851 \\
 a_2 &= -3.0606e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile2

$$\chi^2_\nu (\text{dof} = 76) = 0.27358$$

Age after ZAMS: 0.001 Gyr



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

$$a_0 = -7.9529 \mu\text{Hz}$$

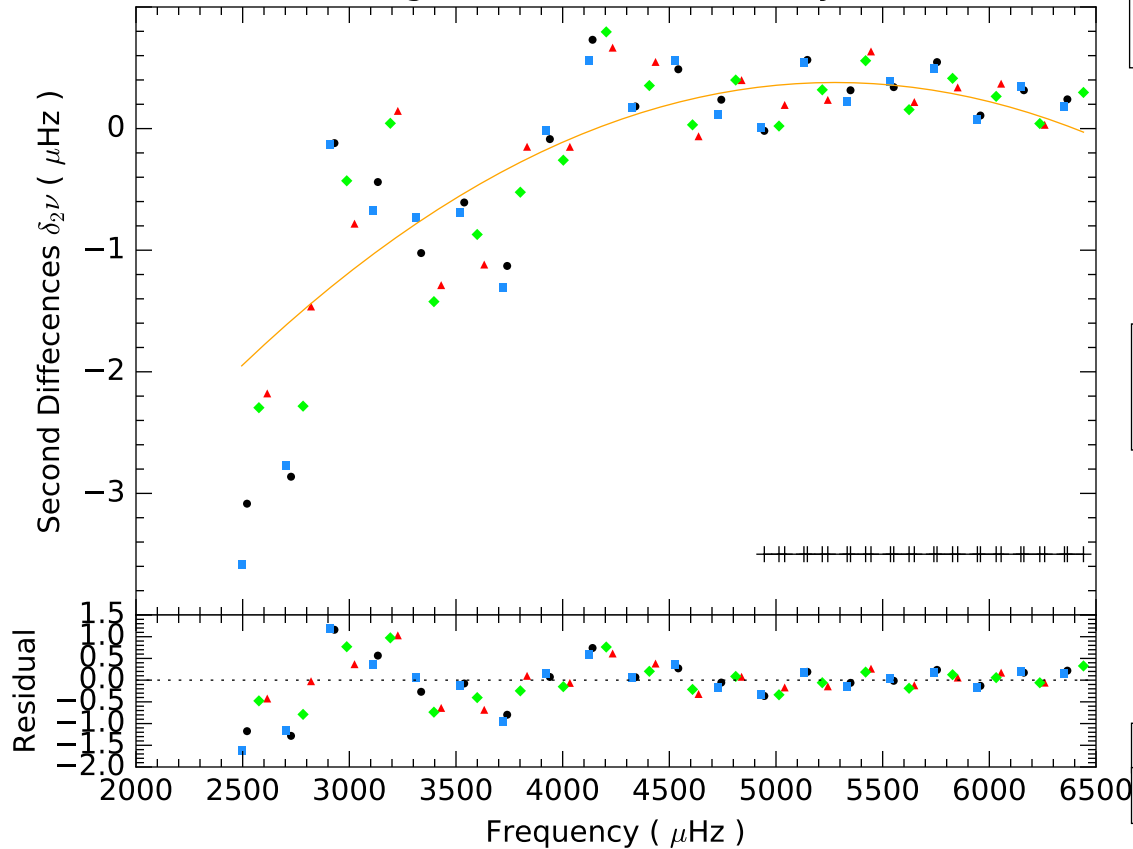
$$a_1 = 0.003182$$

$$a_2 = -3.0375e-07 \mu\text{Hz}^{-1}$$

profile3

$$\chi^2_\nu(\text{dof} = 76) = 0.27357$$

Age after ZAMS: 0.002 Gyr



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

$$a_0 = -8.0086 \mu \text{ Hz}$$

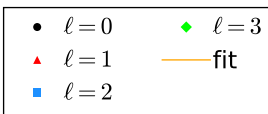
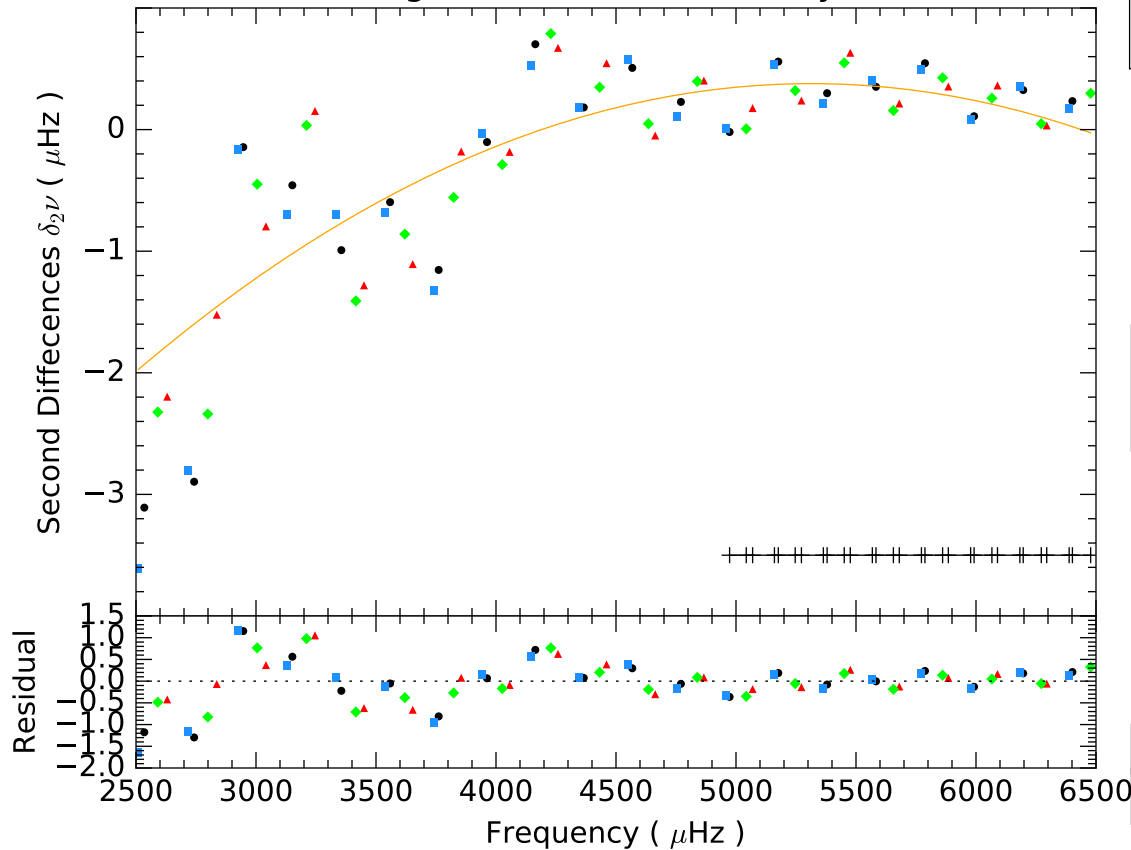
$$a_1 = 0.0031791$$

$$a_2 = -3.0123e-07 \mu\text{Hz}^{-1}$$

profile4

$$\chi^2_\nu(\text{dof} = 76) = 0.27463$$

Age after ZAMS: 0.004 Gyr

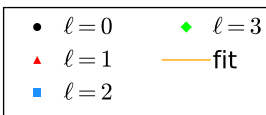
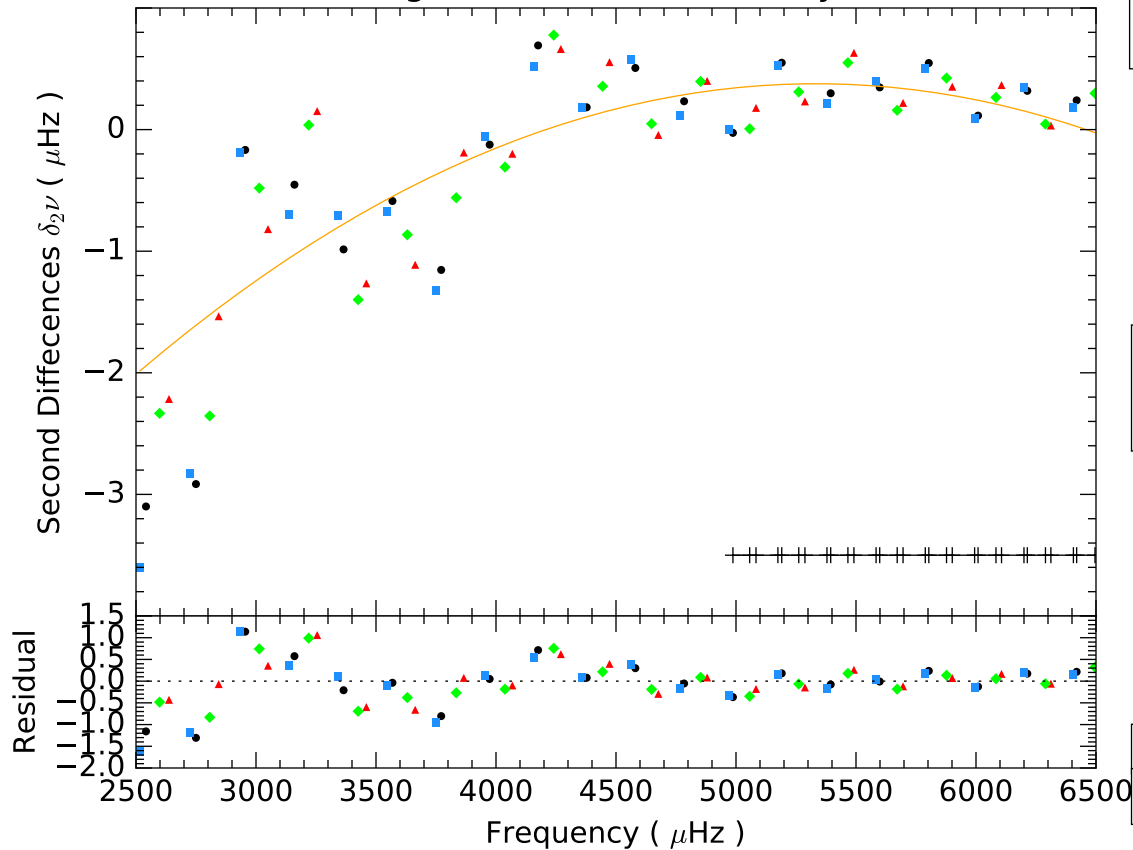


$$\begin{aligned}
 a_0 &= -8.0631 \mu \text{ Hz} \\
 a_1 &= 0.0031769 \\
 a_2 &= -2.989e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile5

$$\chi^2_\nu(\text{dof} = 76) = 0.27504$$

Age after ZAMS: 0.007 Gyr

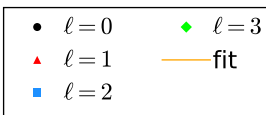
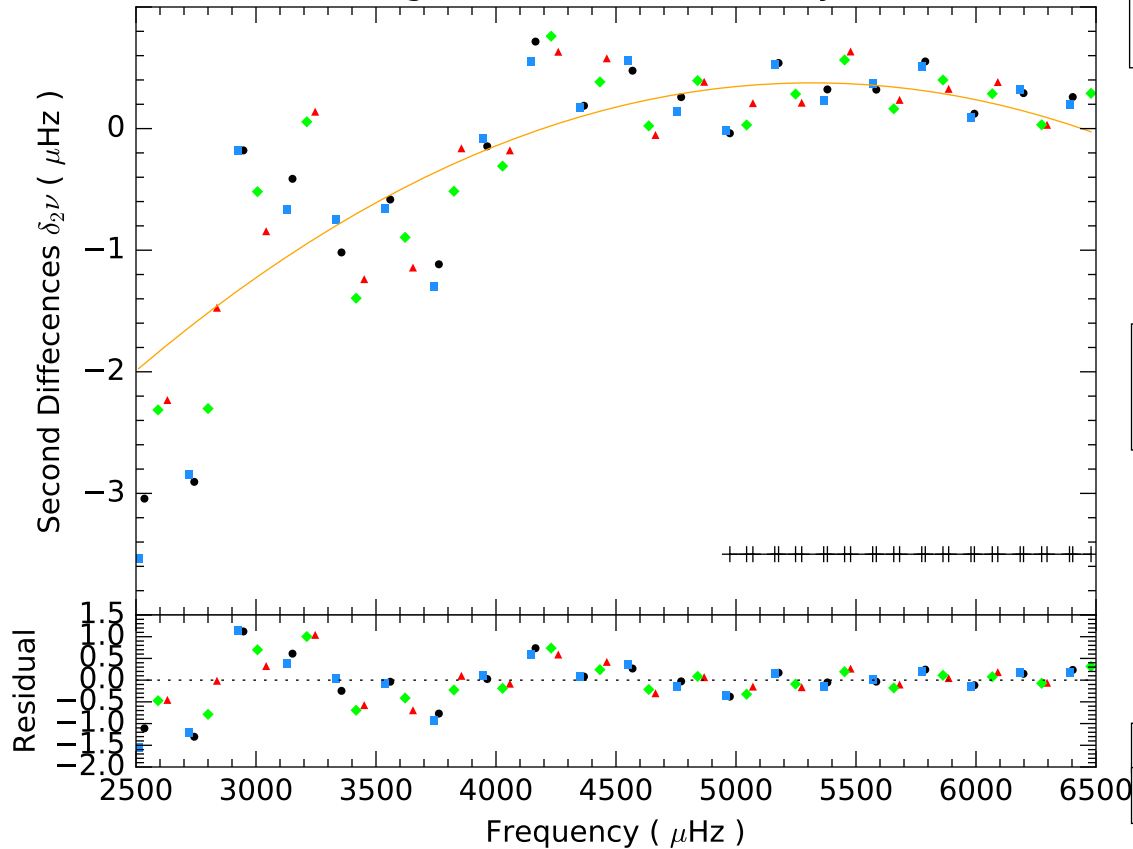


$$\begin{aligned}
 a_0 &= -8.0882 \mu \text{ Hz} \\
 a_1 &= 0.0031745 \\
 a_2 &= -2.9761e-07 \mu\text{Hz}
 \end{aligned}$$

profile6

$$\chi^2_\nu (\text{dof} = 76) = 0.27252$$

Age after ZAMS: 0.013 Gyr

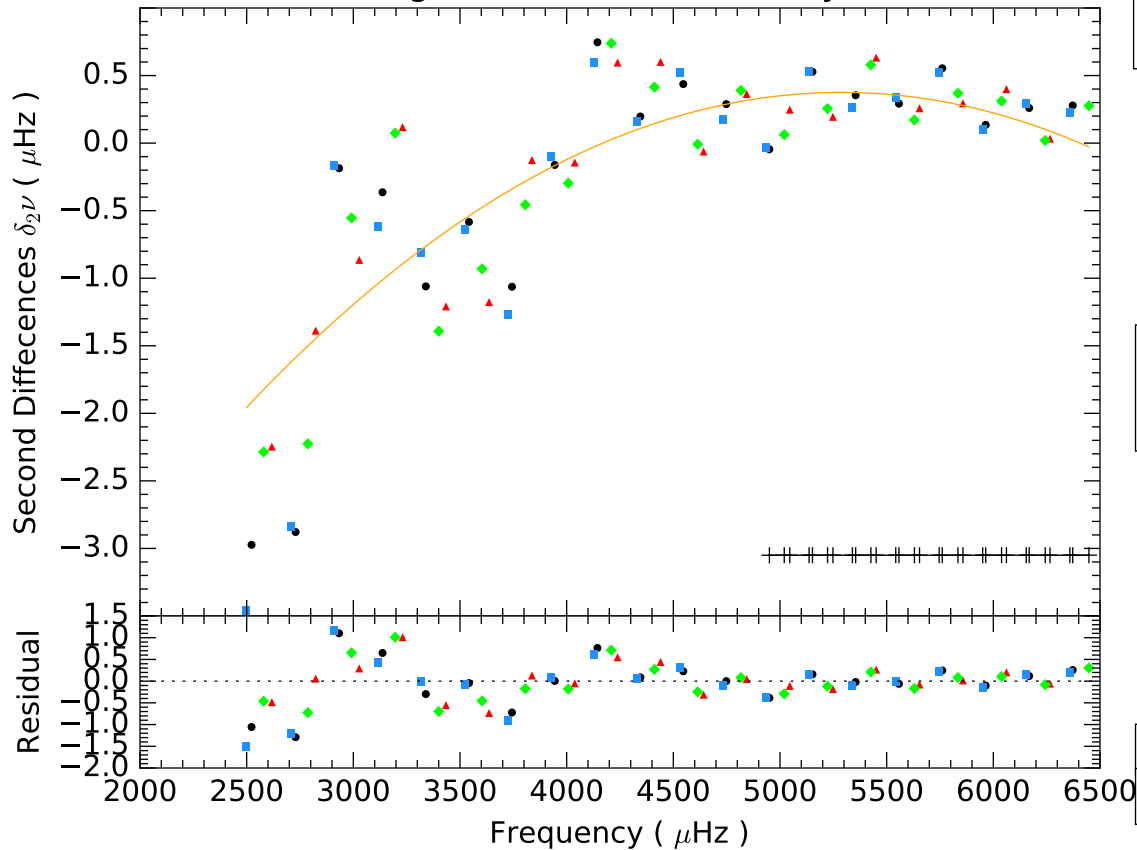


$$\begin{aligned}
 a_0 &= -8.0595 \mu \text{ Hz} \\
 a_1 &= 0.0031726 \\
 a_2 &= -2.9831e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile7

$$\chi^2_\nu (\text{dof} = 76) = 0.26659$$

Age after ZAMS: 0.023 Gyr



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

$$a_0 = -8.0087 \mu\text{Hz}$$

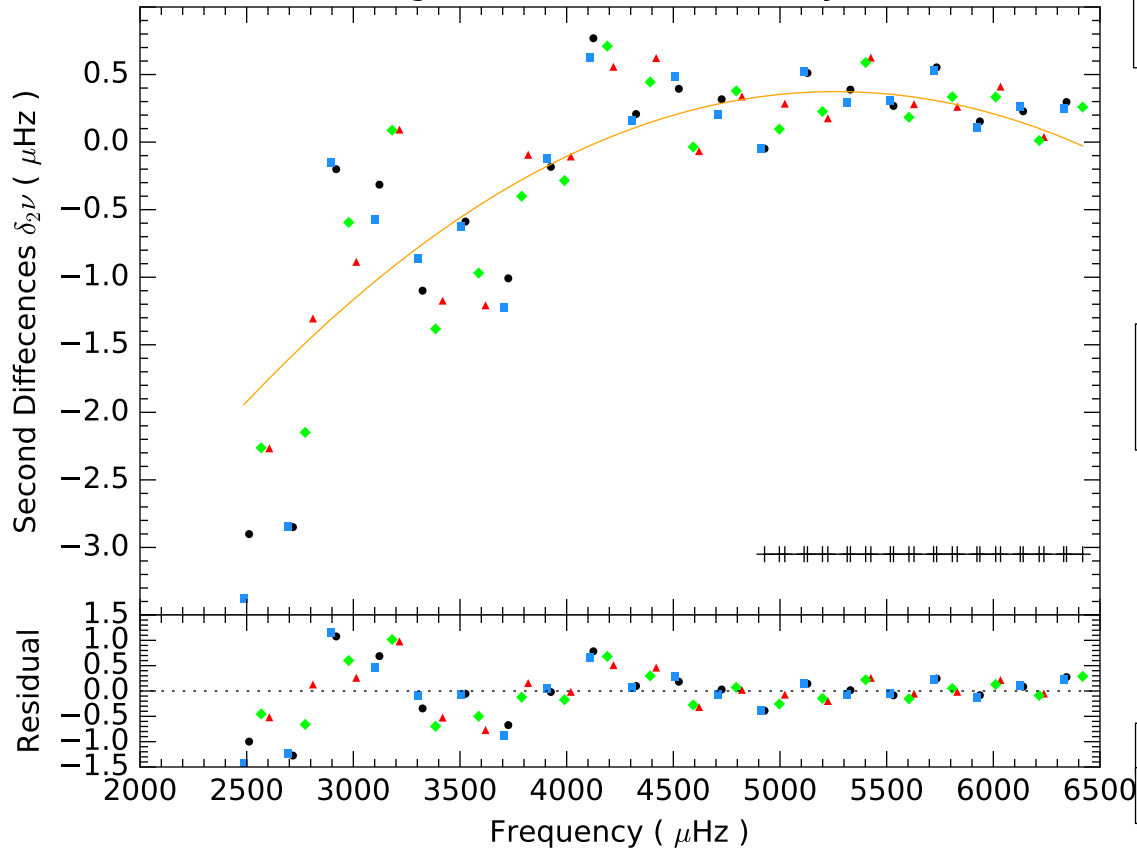
$$a_1 = 0.0031708$$

$$a_2 = -2.998e-07 \mu\text{Hz}^{-1}$$

profile8

$$\chi^2_\nu(\text{dof} = 76) = 0.25982$$

Age after ZAMS: 0.039 Gyr



$$a_0 = -7.9565 \mu\text{Hz}$$

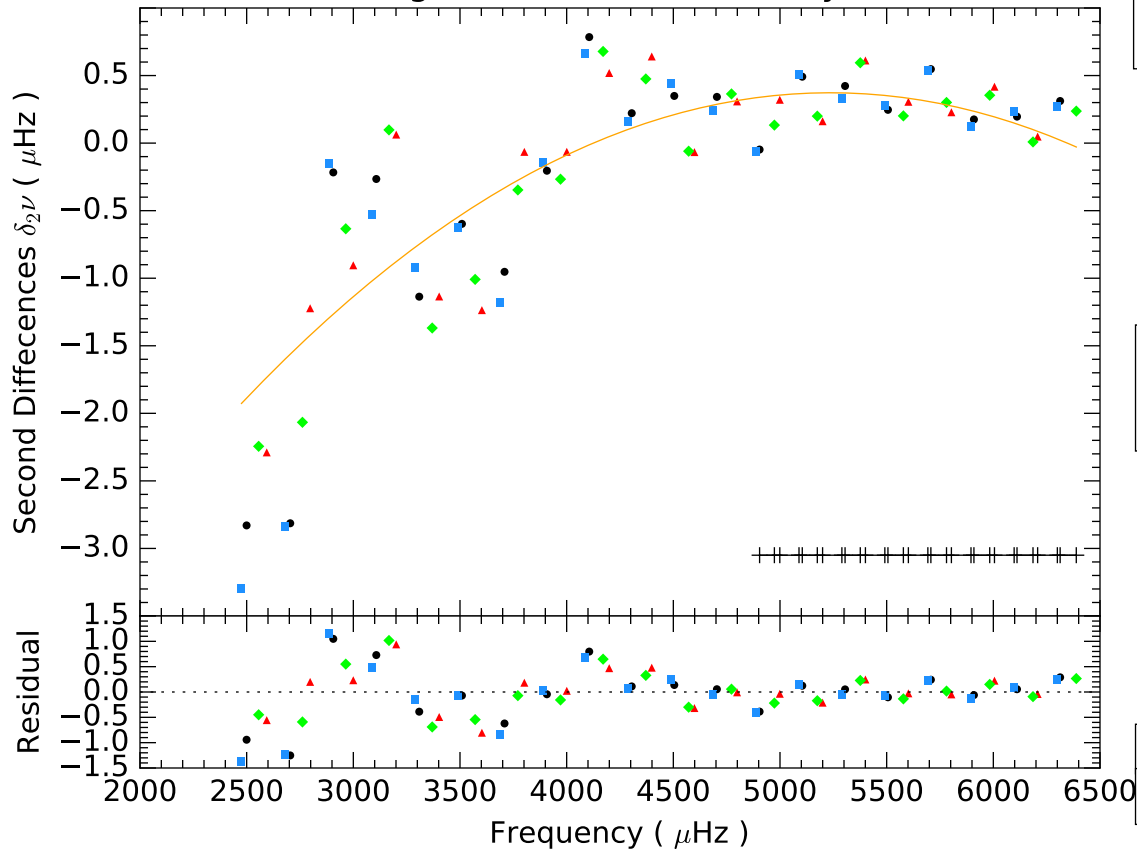
$$a_1 = 0.0031661$$

$$a_2 = -3.0083e-07 \mu\text{Hz}^{-1}$$

profile9

$$\chi^2_\nu(\text{dof} = 76) = 0.25254$$

Age after ZAMS: 0.068 Gyr



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

$$a_0 = -7.9022 \mu\text{Hz}$$

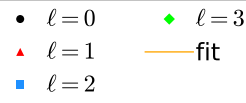
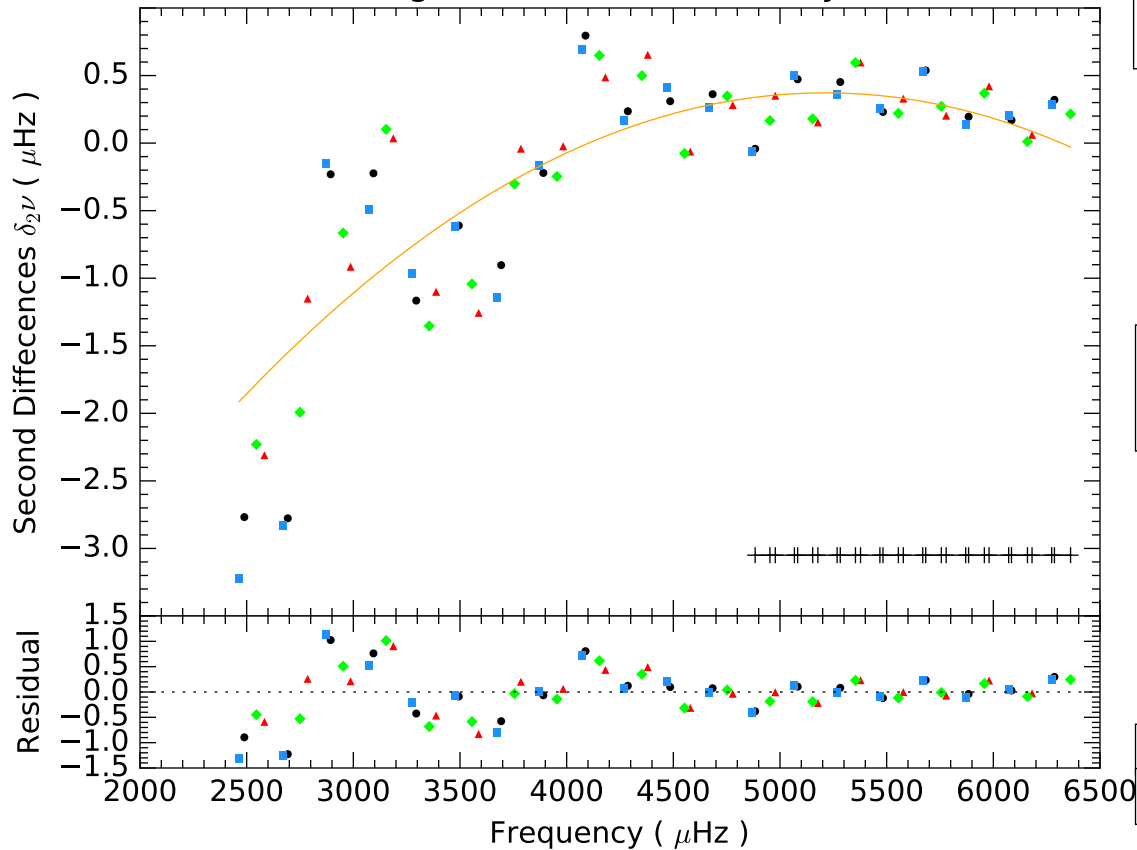
$$a_1 = 0.0031609$$

$$a_2 = -3.0186e-07 \mu\text{Hz}^{-1}$$

profile10

$$\chi^2_\nu(\text{dof} = 76) = 0.24543$$

Age after ZAMS: 0.118 Gyr

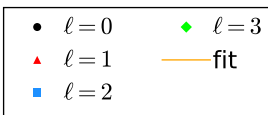
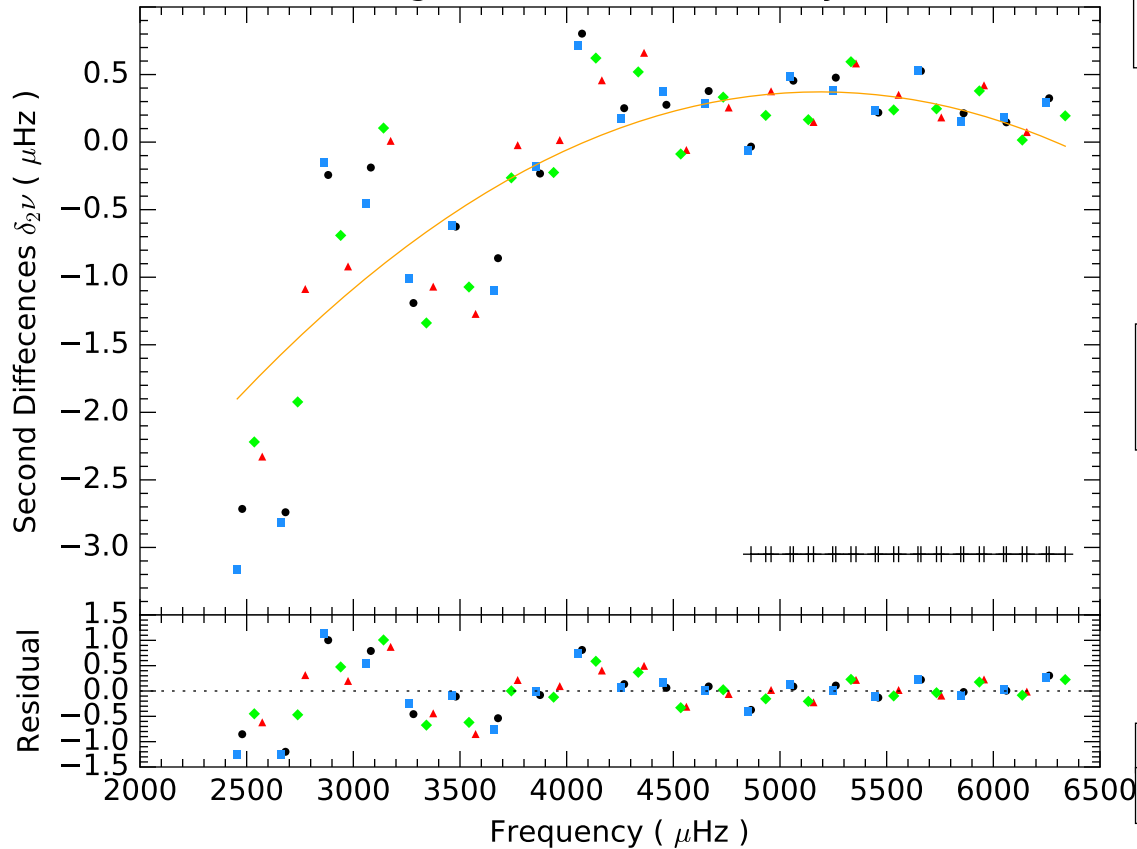


$$\begin{aligned}a_0 &= -7.8571 \mu\text{Hz} \\a_1 &= 0.0031581 \\a_2 &= -3.03e-07 \mu\text{Hz}^{-1}\end{aligned}$$

profile11

$$\chi^2_\nu(\text{dof} = 76) = 0.23947$$

Age after ZAMS: 0.205 Gyr

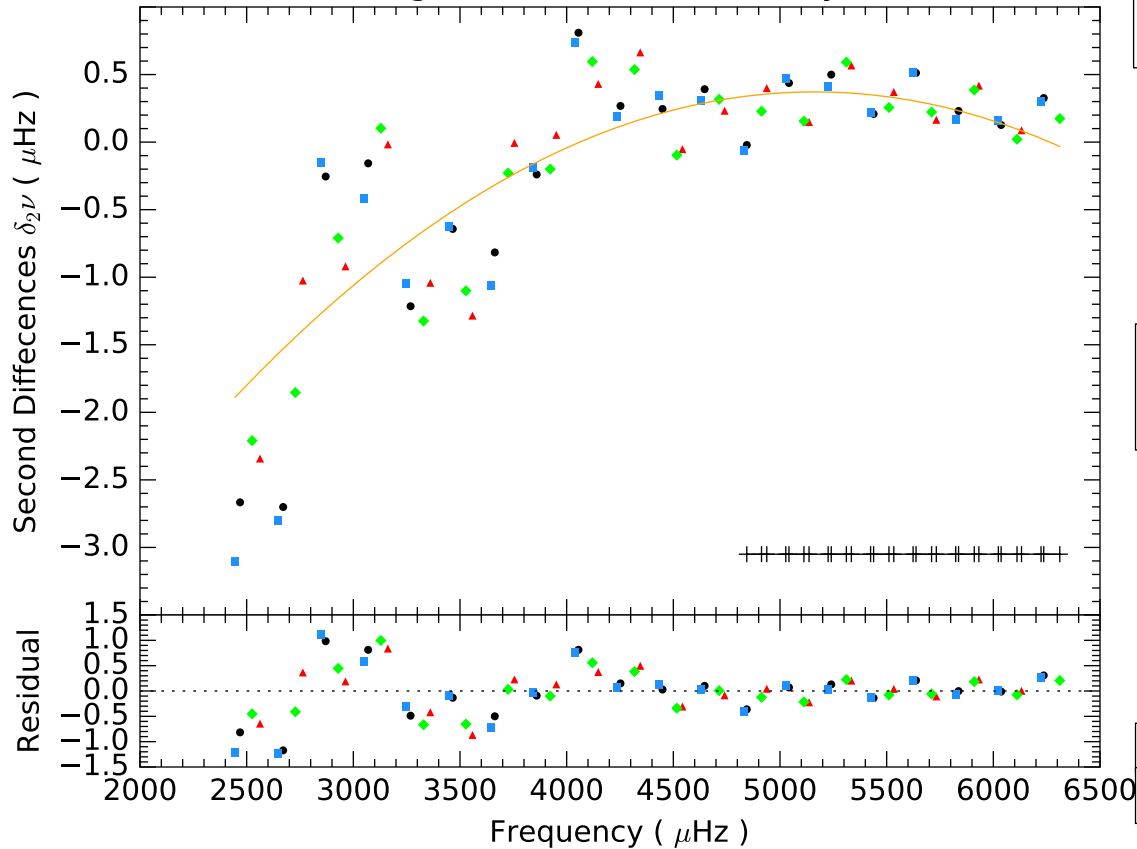


$$\begin{aligned}
 a_0 &= -7.8209 \mu\text{Hz} \\
 a_1 &= 0.0031584 \\
 a_2 &= -3.044e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile12

$$\chi^2_\nu(\text{dof} = 76) = 0.23442$$

Age after ZAMS: 0.354 Gyr



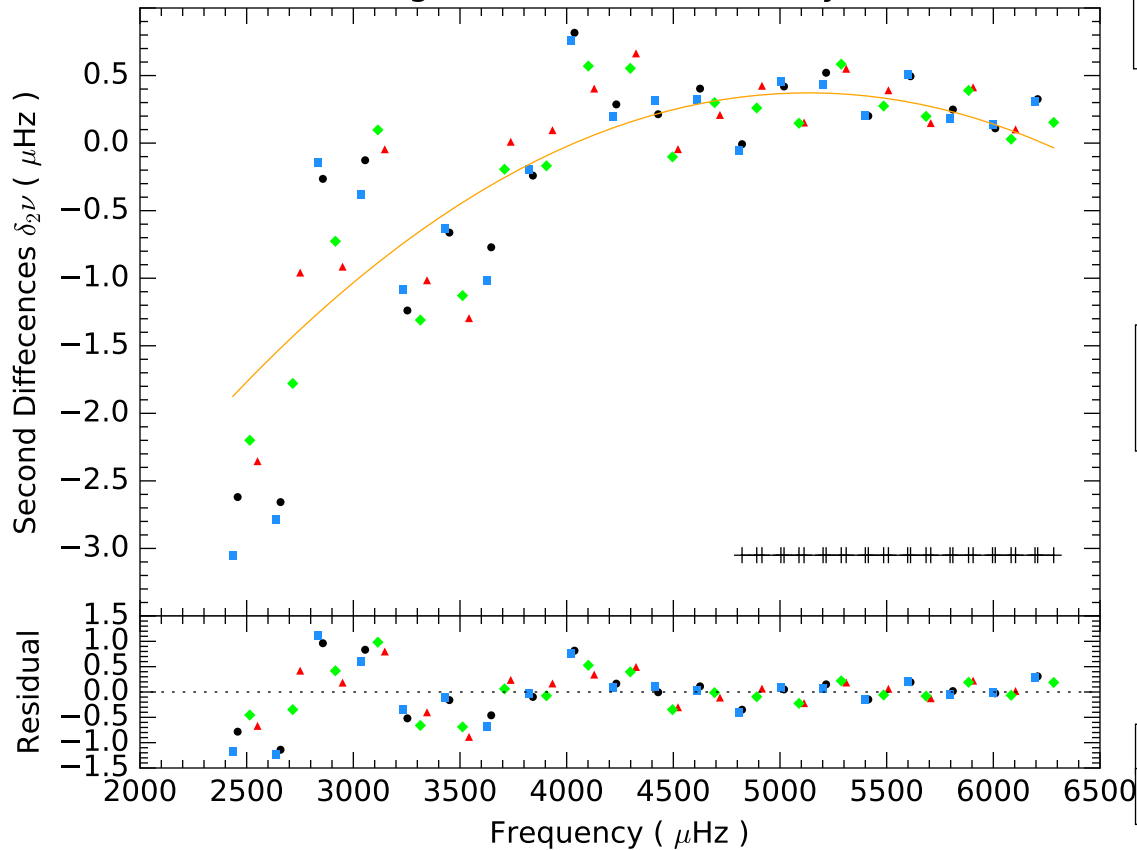
- \bullet $\ell=0$
- \blacklozenge $\ell=3$
- \blacktriangle $\ell=1$
- — fit
- \blacksquare $\ell=2$

$$\begin{aligned}a_0 &= -7.7893 \mu\text{Hz} \\a_1 &= 0.0031614 \\a_2 &= -3.0617e-07 \mu\text{Hz}^{-1}\end{aligned}$$

profile13

$$\chi^2_\nu(\text{dof} = 76) = 0.22999$$

Age after ZAMS: 0.610 Gyr



$$a_0 = -7.7554 \mu\text{Hz}$$

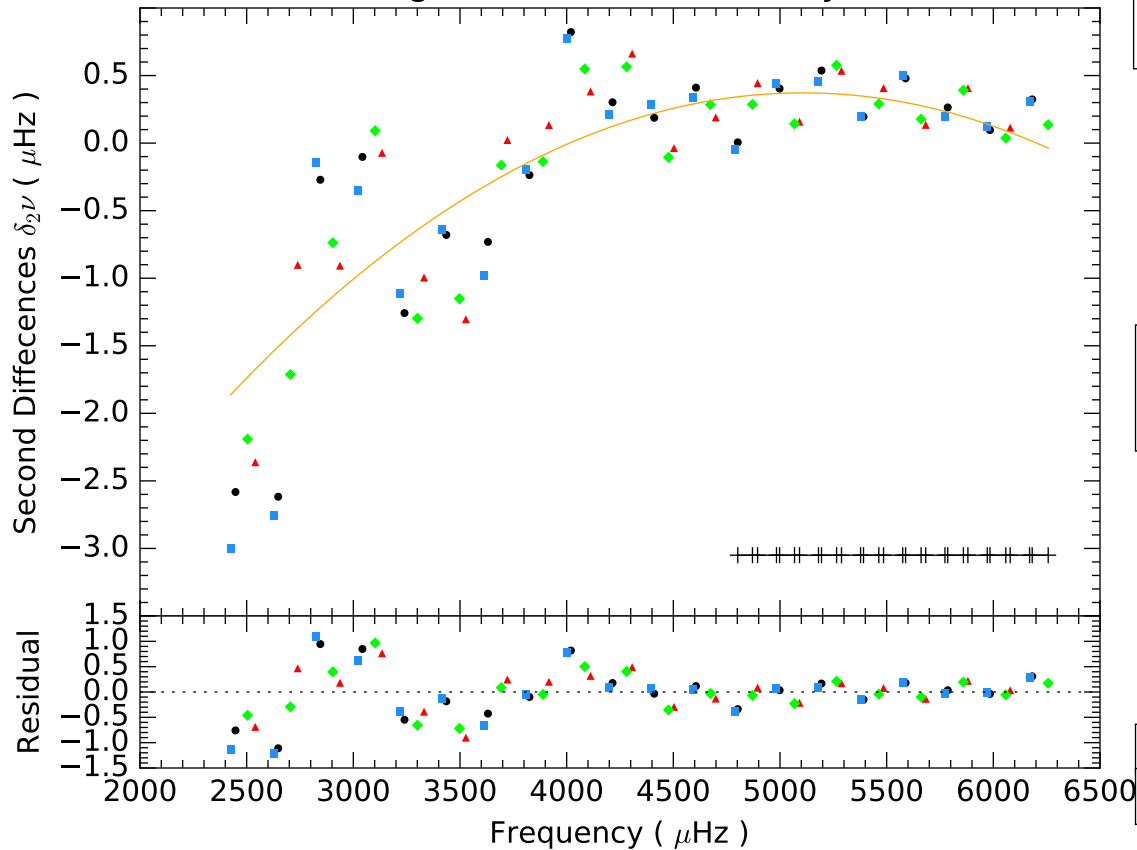
$$a_1 = 0.0031659$$

$$a_2 = -3.0832e-07 \mu\text{Hz}$$

profile14

$$\chi^2_\nu(\text{dof} = 76) = 0.22593$$

Age after ZAMS: 0.910 Gyr



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

$$a_0 = -7.7234 \mu\text{Hz}$$

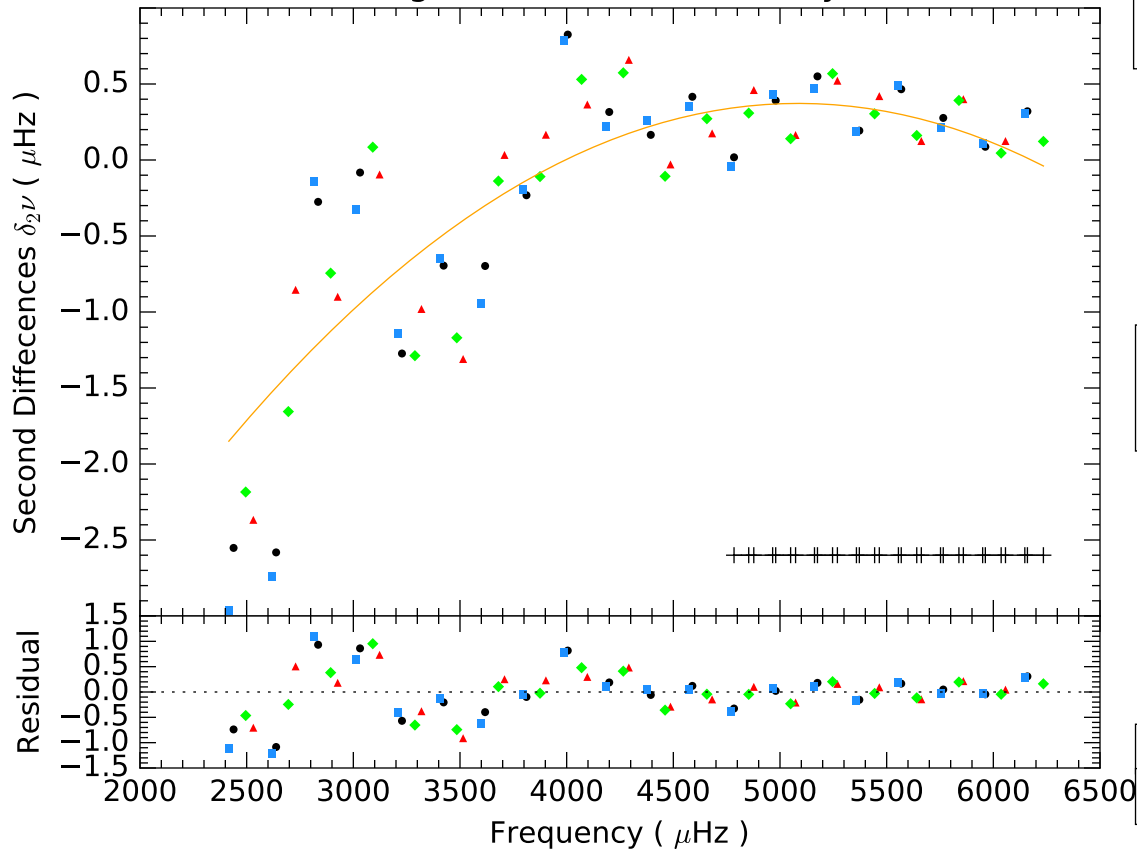
$$a_1 = 0.0031697$$

$$a_2 = -3.1026e-07 \mu\text{Hz}$$

profile15

$$\chi^2_\nu(\text{dof} = 76) = 0.22284$$

Age after ZAMS: 1.210 Gyr



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

$$a_0 = -7.6943 \mu\text{Hz}$$

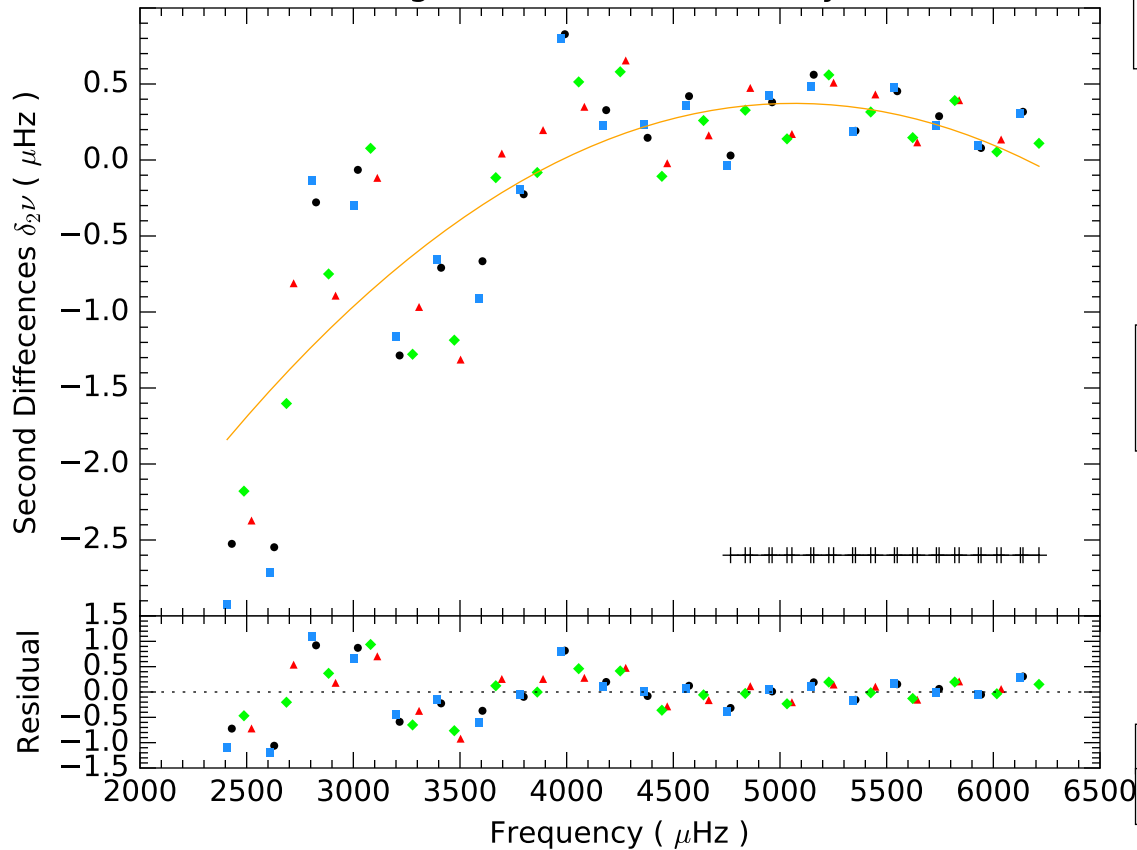
$$a_1 = 0.0031722$$

$$a_2 = -3.1187e-07 \mu\text{Hz}^{-1}$$

profile16

$$\chi^2_\nu(\text{dof} = 76) = 0.22043$$

Age after ZAMS: 1.510 Gyr



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

$$a_0 = -7.6668 \mu\text{Hz}$$

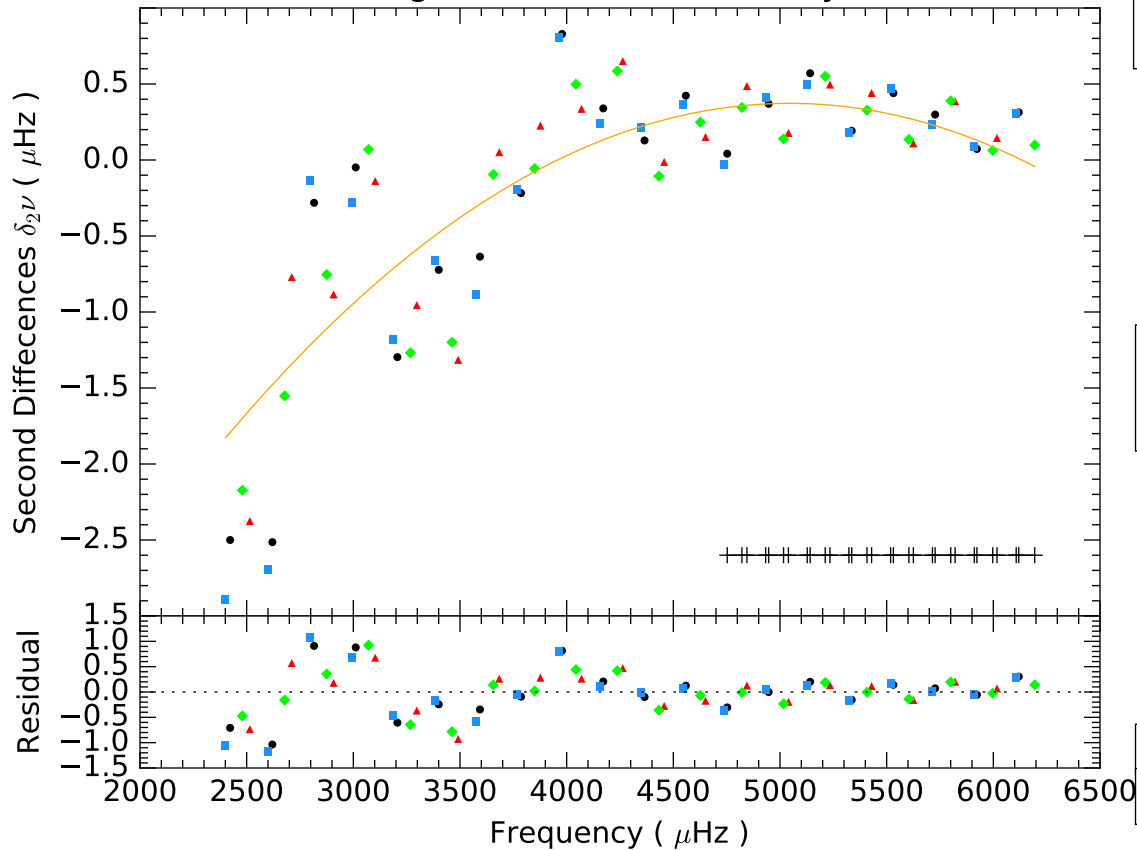
$$a_1 = 0.0031745$$

$$a_2 = -3.1338e-07 \mu\text{Hz}^{-1}$$

profile17

$$\chi^2_\nu (\text{dof} = 76) = 0.21837$$

Age after ZAMS: 1.810 Gyr



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

$$a_0 = -7.6398 \mu \text{ Hz}$$

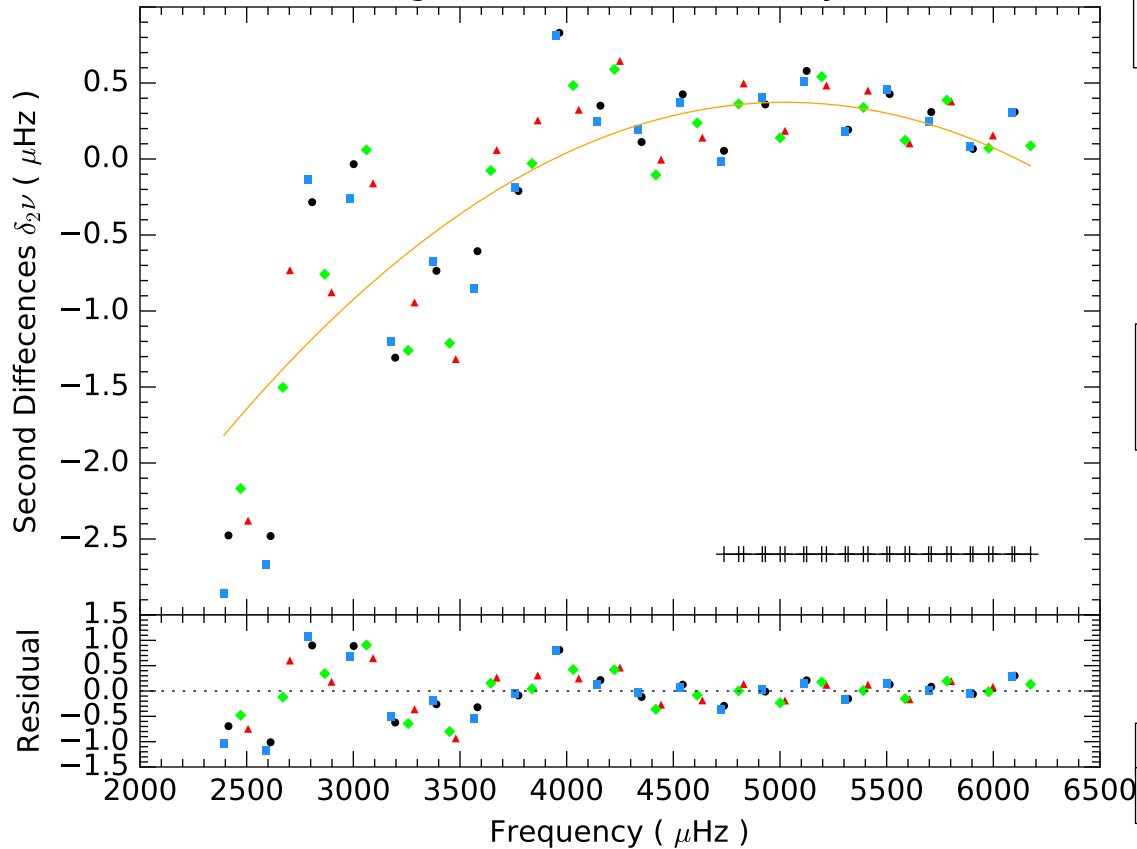
$$a_1 = 0.0031765$$

$$a_2 = -3.1483e-07 \mu\text{Hz}^{-1}$$

profile18

$$\chi^2_\nu(\text{dof} = 76) = 0.21648$$

Age after ZAMS: 2.110 Gyr



$$a_0 = -7.6131 \mu\text{Hz}$$

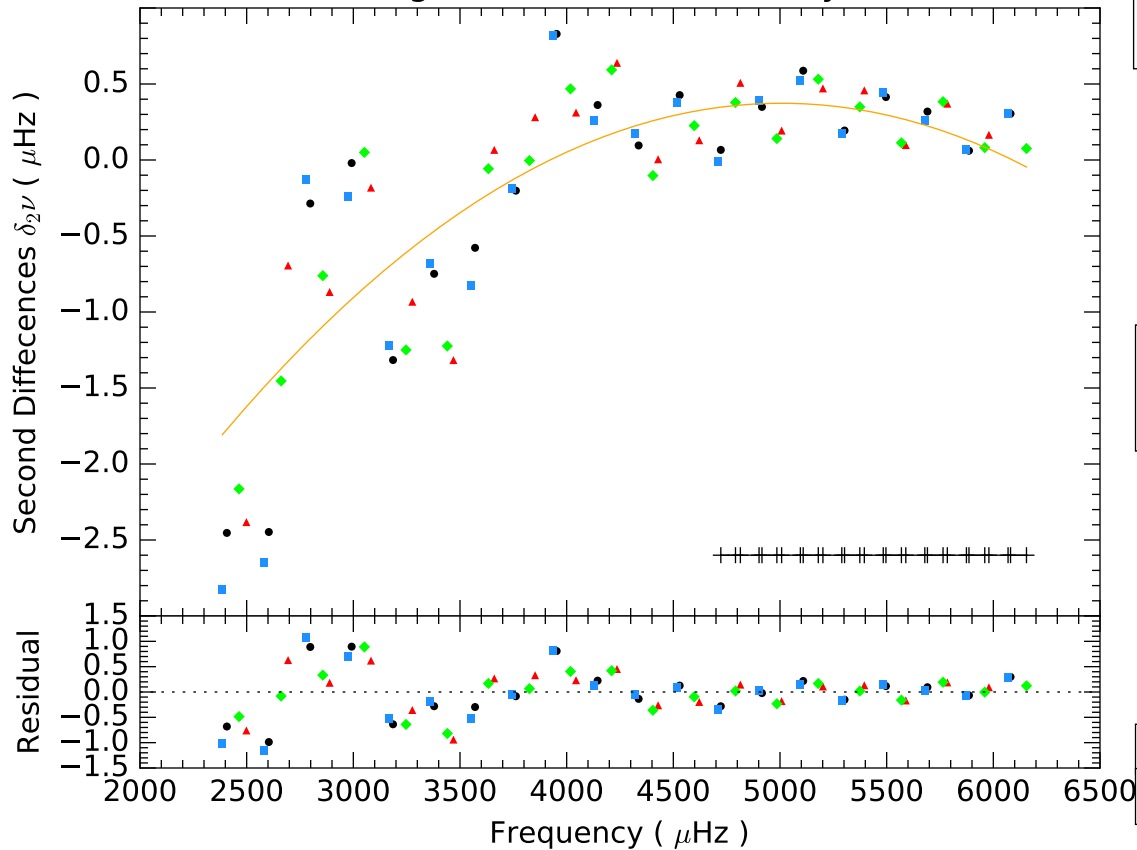
$$a_1 = 0.0031783$$

$$a_2 = -3.1623e-07 \mu\text{Hz}^{-1}$$

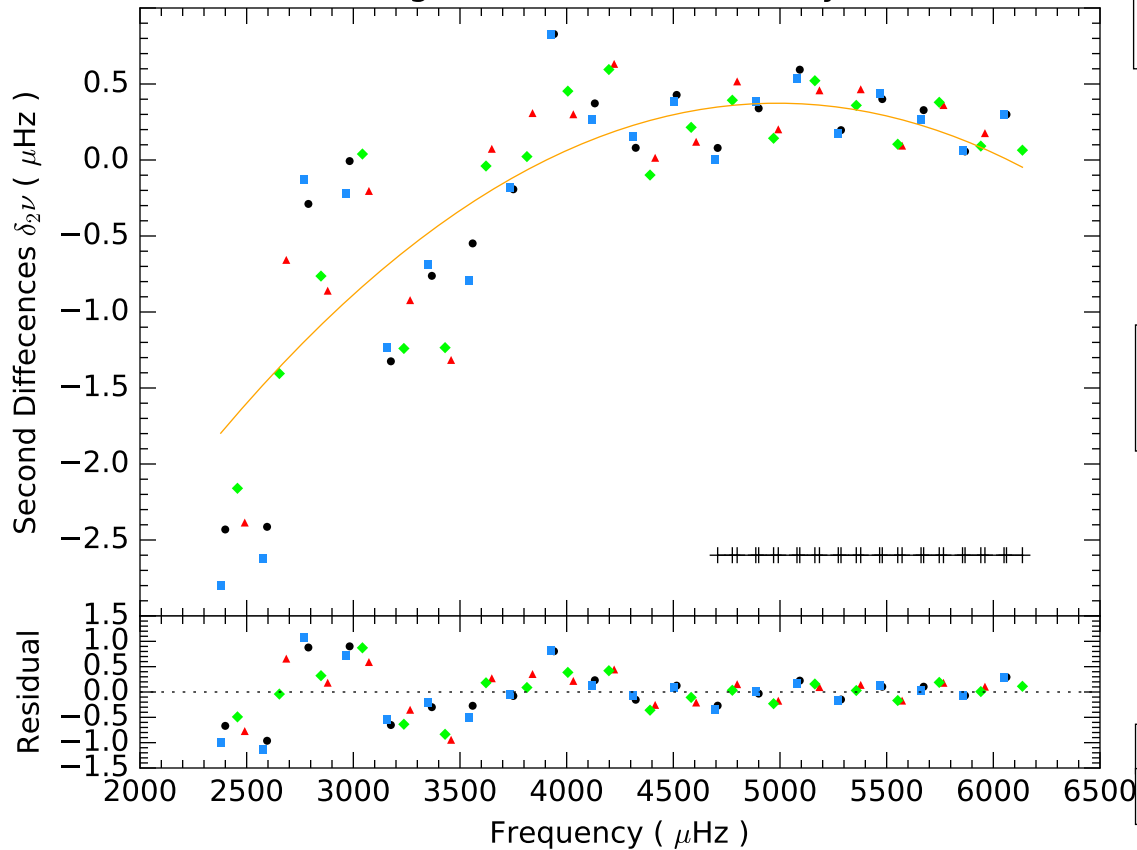
profile19

$$\chi^2_\nu(\text{dof} = 76) = 0.21475$$

Age after ZAMS: 2.410 Gyr



Age after ZAMS: 2.710 Gyr



$$a_0 = -7.5606 \mu\text{Hz}$$

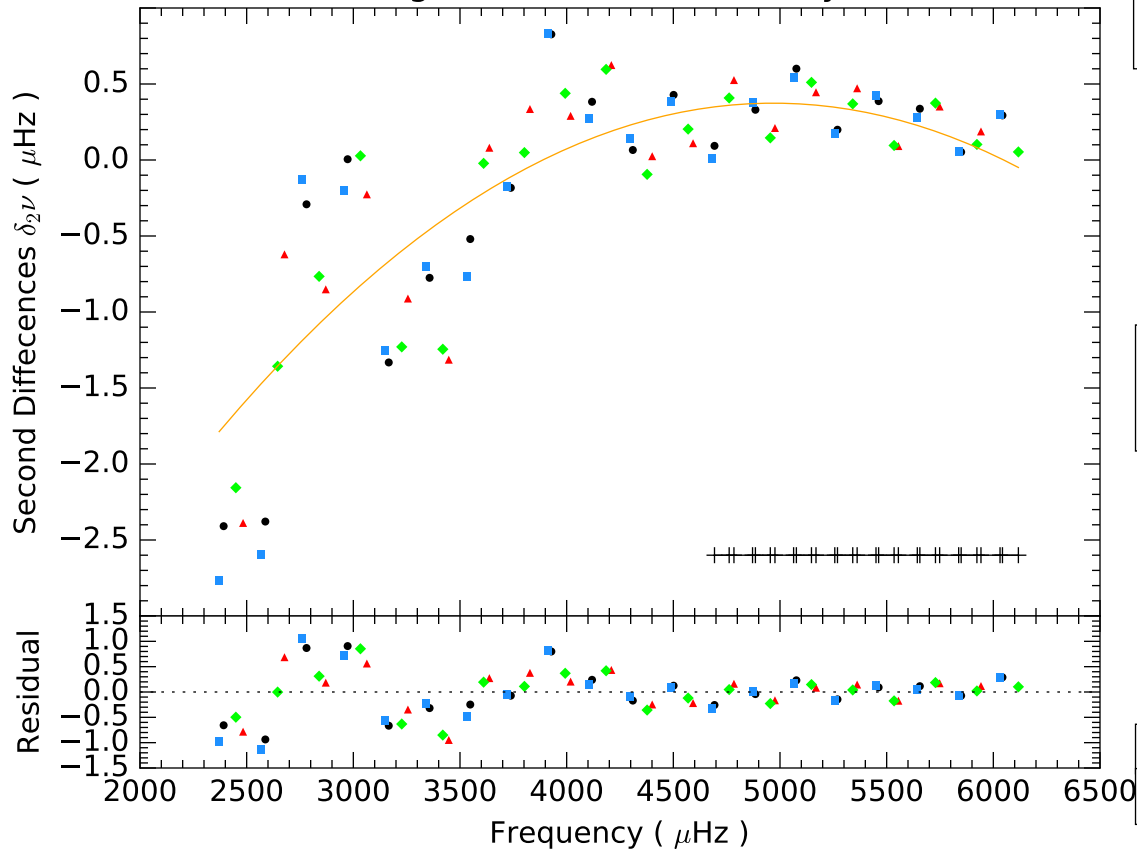
$$a_1 = 0.0031818$$

$$a_2 = -3.1899e-07 \mu\text{Hz}^{-1}$$

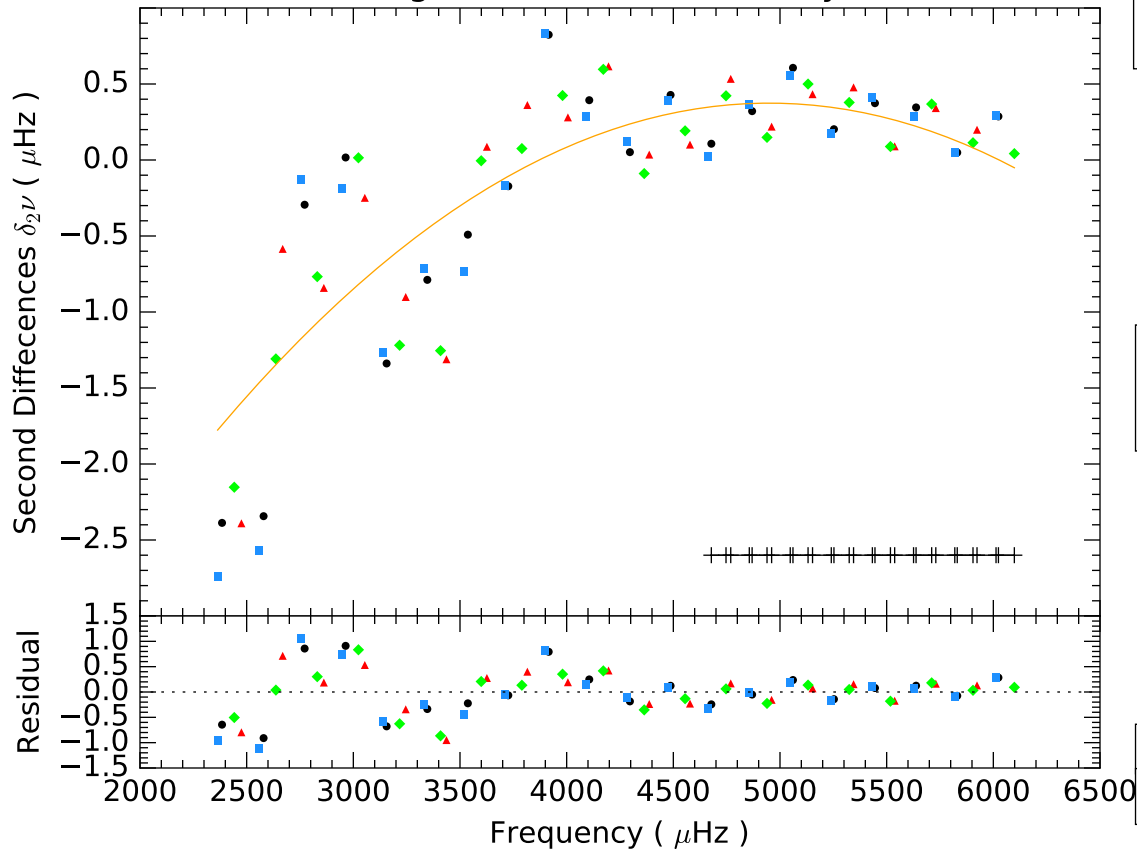
profile21

$$\chi^2_\nu(\text{dof} = 76) = 0.21141$$

Age after ZAMS: 3.010 Gyr



Age after ZAMS: 3.310 Gyr



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

$$a_0 = -7.5083 \mu \text{ Hz}$$

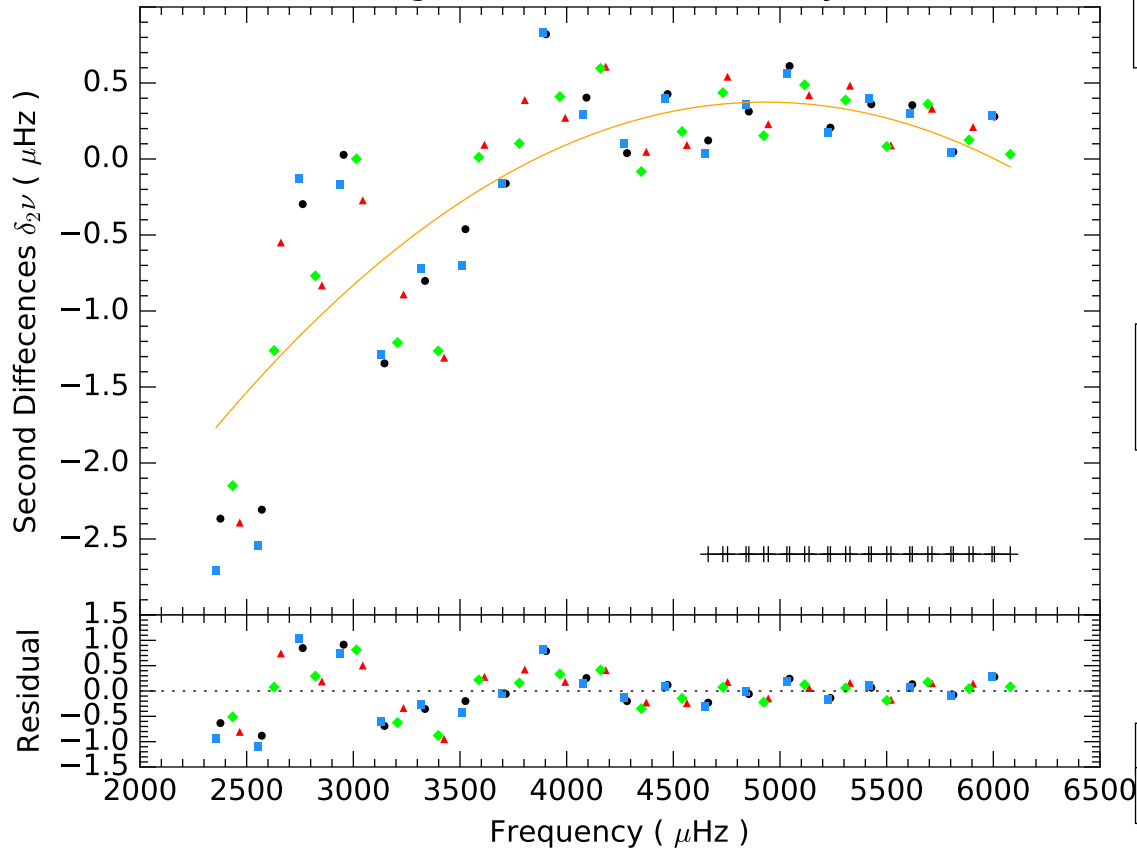
$$a_1 = 0.0031853$$

$$a_2 = -3.218e-07 \mu\text{Hz}^{-1}$$

profile23

$$\chi^2_\nu (\text{dof} = 76) = 0.20825$$

Age after ZAMS: 3.610 Gyr



$$a_0 = -7.4818 \mu \text{ Hz}$$

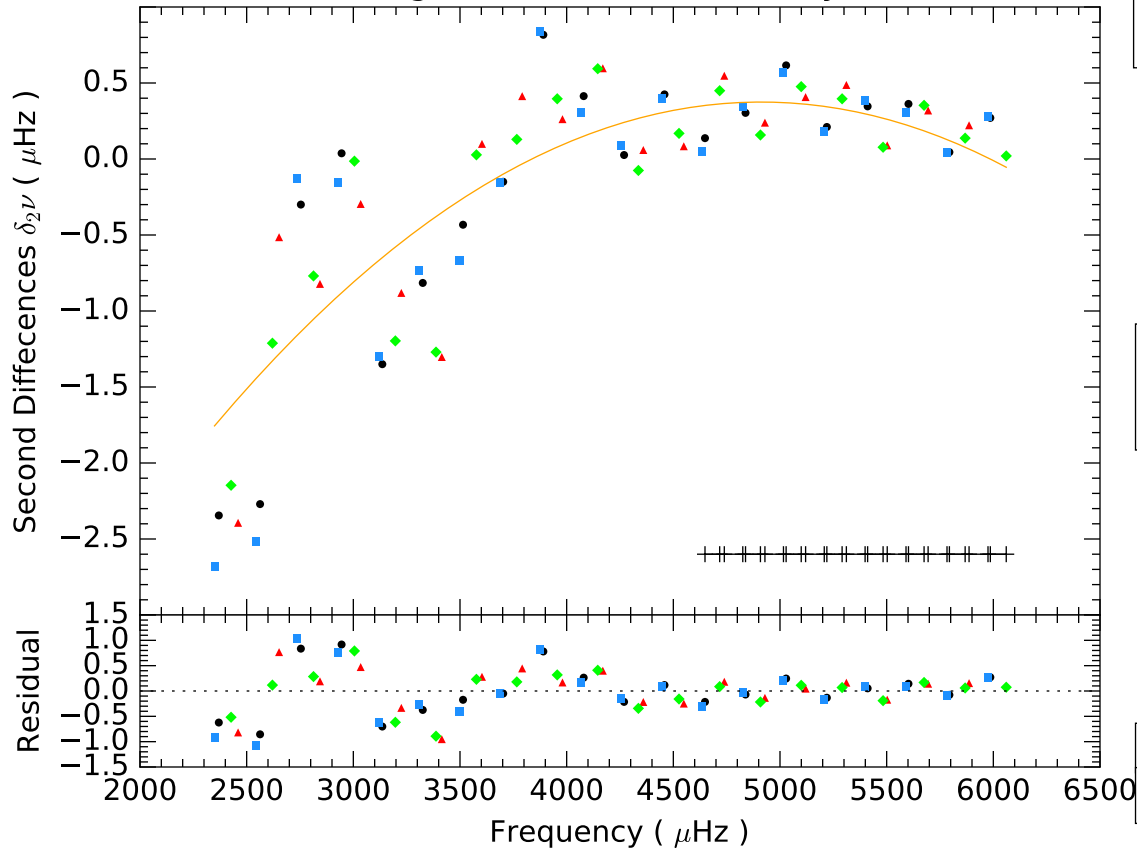
$$a_1 = 0.0031871$$

$$a_2 = -3.2322e-07 \mu\text{Hz}^{-1}$$

profile24

$$\chi^2_\nu(\text{dof} = 76) = 0.20671$$

Age after ZAMS: 3.910 Gyr



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

$$a_0 = -7.4555 \mu \text{ Hz}$$

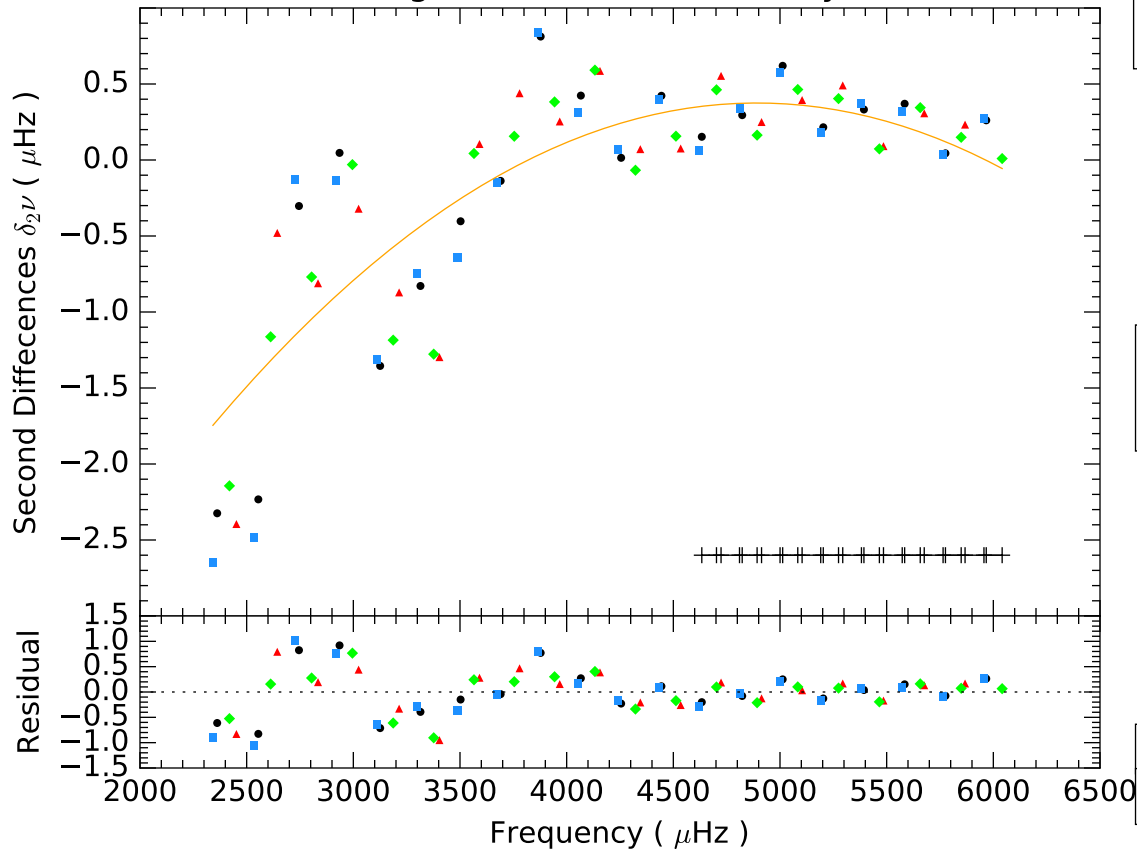
$$a_1 = 0.0031889$$

$$a_2 = -3.2467e-07 \mu\text{Hz}^{-1}$$

profile25

$$\chi^2_\nu(\text{dof} = 76) = 0.20519$$

Age after ZAMS: 4.210 Gyr



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

$$a_0 = -7.4291 \mu\text{Hz}$$

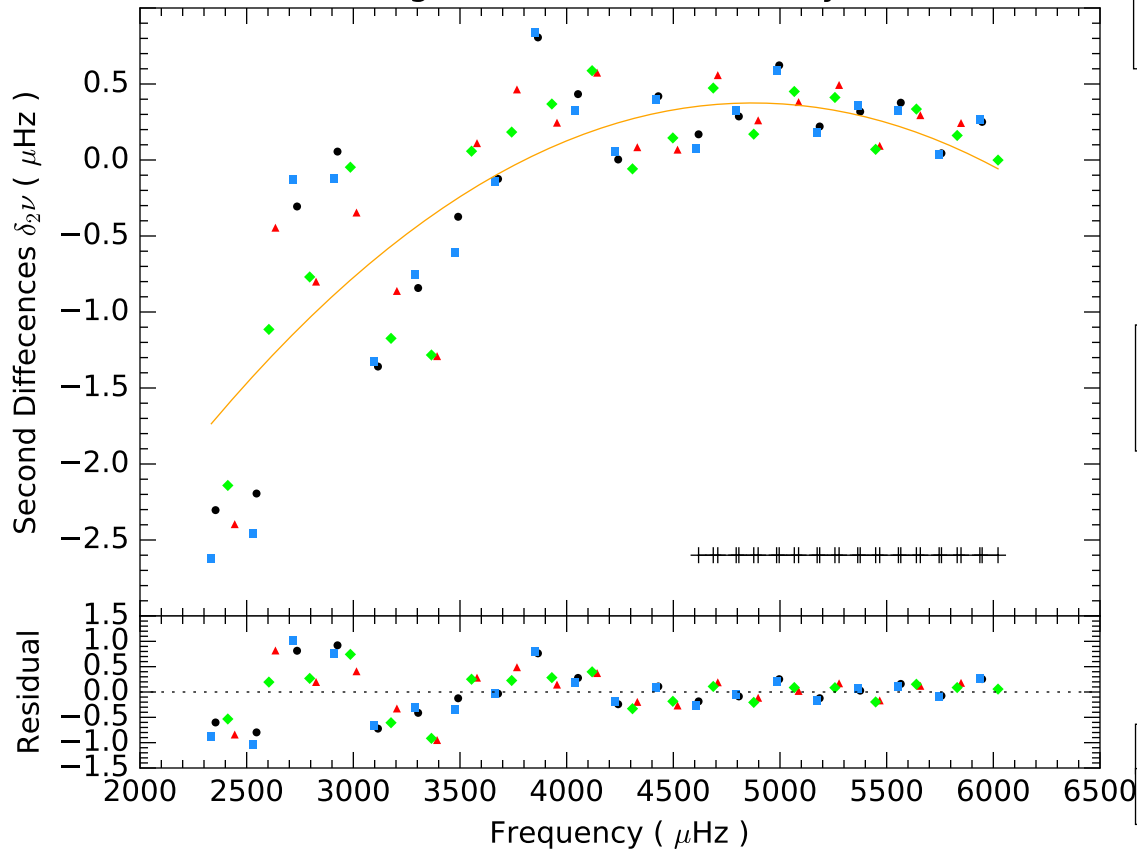
$$a_1 = 0.0031908$$

$$a_2 = -3.2614e-07 \mu\text{Hz}^{-1}$$

profile26

$$\chi^2_\nu(\text{dof} = 76) = 0.20369$$

Age after ZAMS: 4.510 Gyr



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

$$a_0 = -7.4025 \mu \text{ Hz}$$

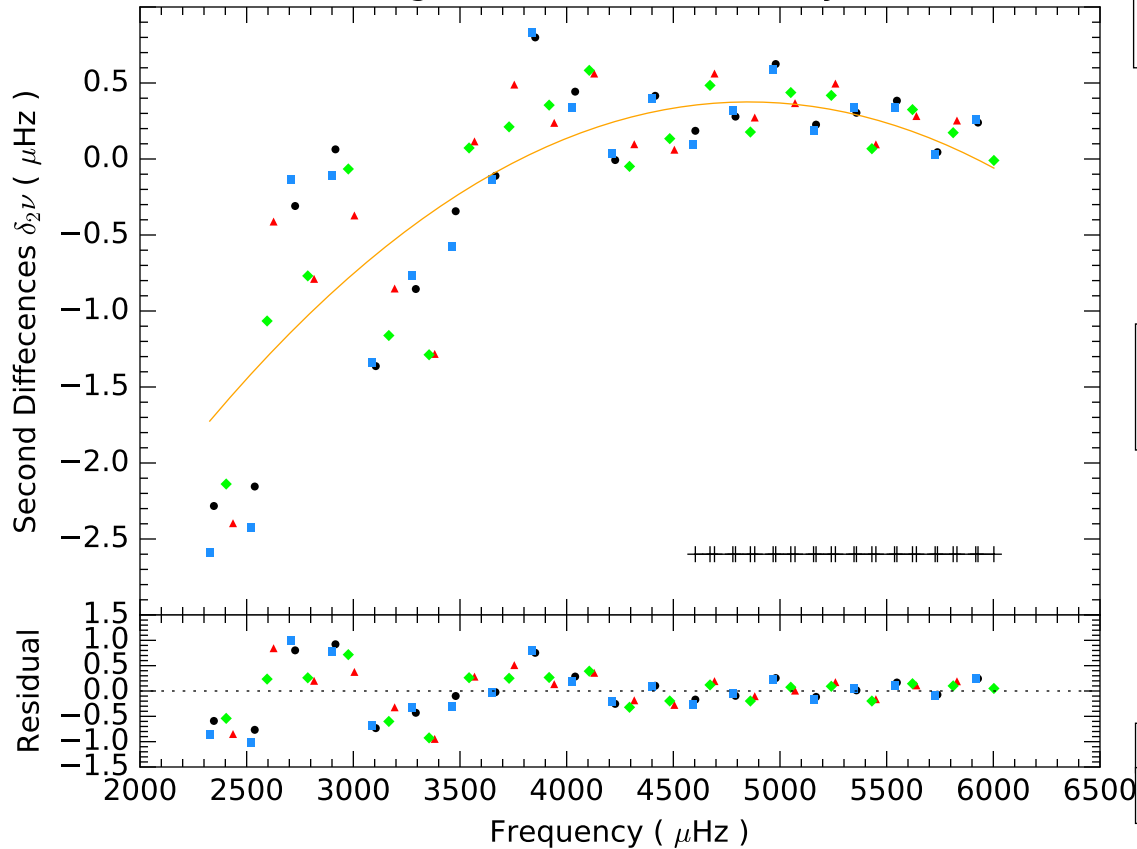
$$a_1 = 0.0031927$$

$$a_2 = -3.2765e-07 \mu\text{Hz}^{-1}$$

profile27

$$\chi^2_\nu (\text{dof} = 76) = 0.20221$$

Age after ZAMS: 4.810 Gyr



$$a_0 = -7.3757 \mu \text{ Hz}$$

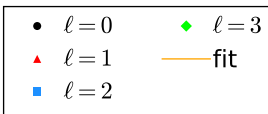
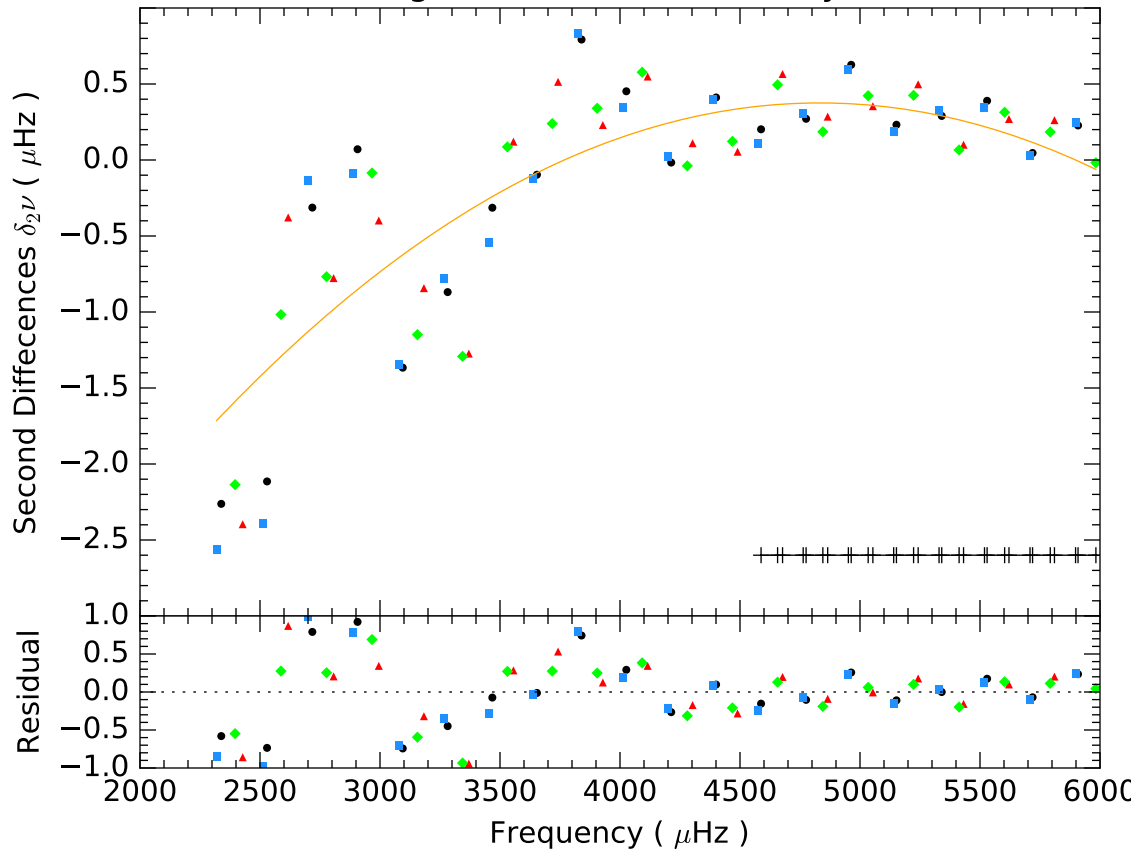
$$a_1 = 0.0031946$$

$$a_2 = -3.2917e-07 \mu\text{Hz}^{-1}$$

profile28

$$\chi^2_\nu (\text{dof} = 76) = 0.20074$$

Age after ZAMS: 5.110 Gyr

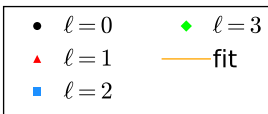
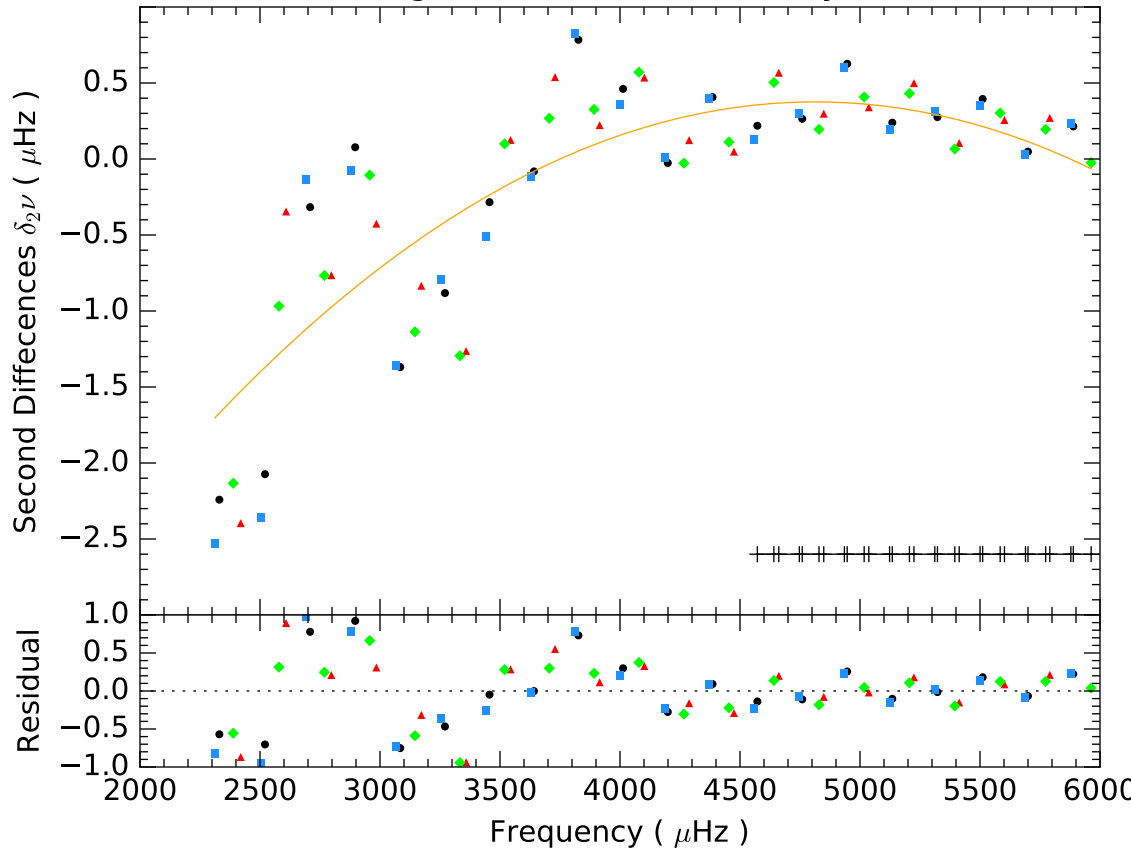


$a_0 = -7.3492 \mu\text{Hz}$
 $a_1 = 0.0031967$
 $a_2 = -3.3072e-07 \mu\text{Hz}^{-1}$

profile29

$\chi^2_\nu(\text{dof} = 76) = 0.1993$

Age after ZAMS: 5.410 Gyr

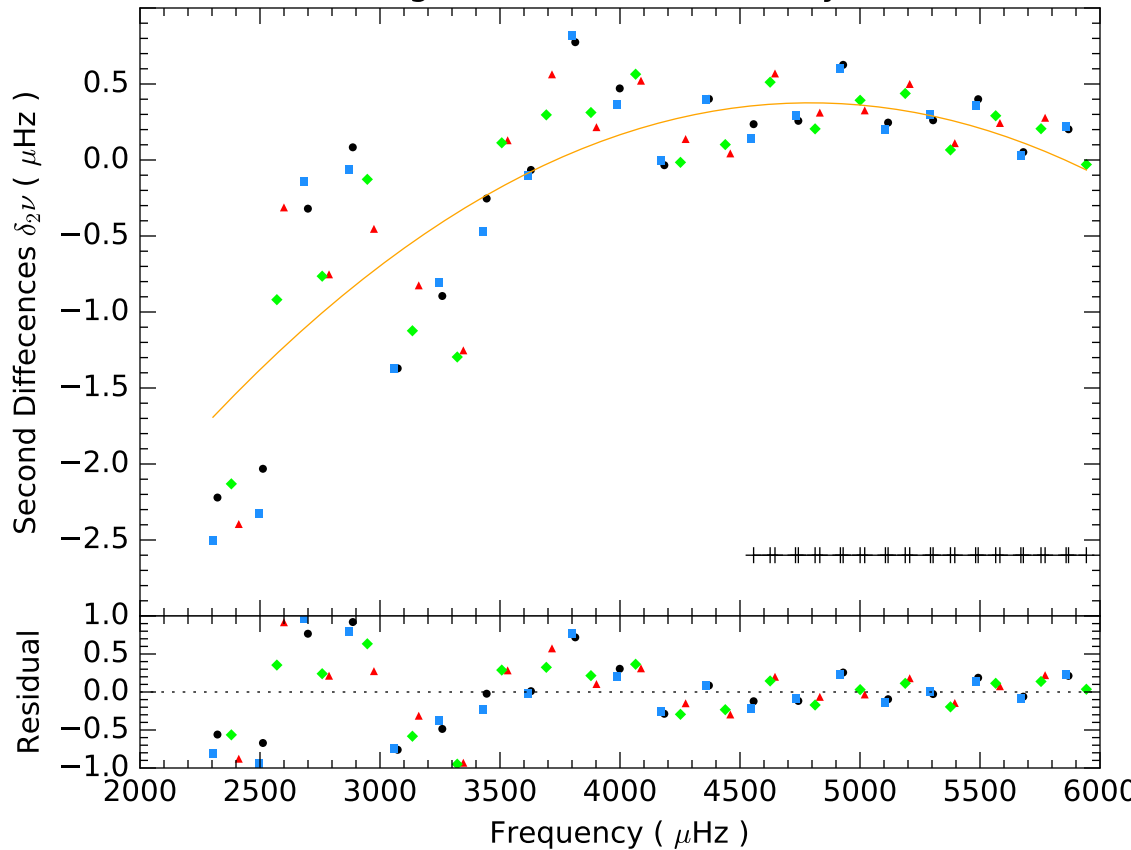


$$\begin{aligned}
 a_0 &= -7.3219 \mu\text{Hz} \\
 a_1 &= 0.0031987 \\
 a_2 &= -3.323e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile30

$$\chi^2_\nu(\text{dof} = 76) = 0.19791$$

Age after ZAMS: 5.710 Gyr



$$a_0 = -7.2938 \mu\text{Hz}$$

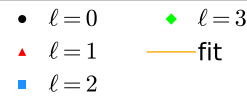
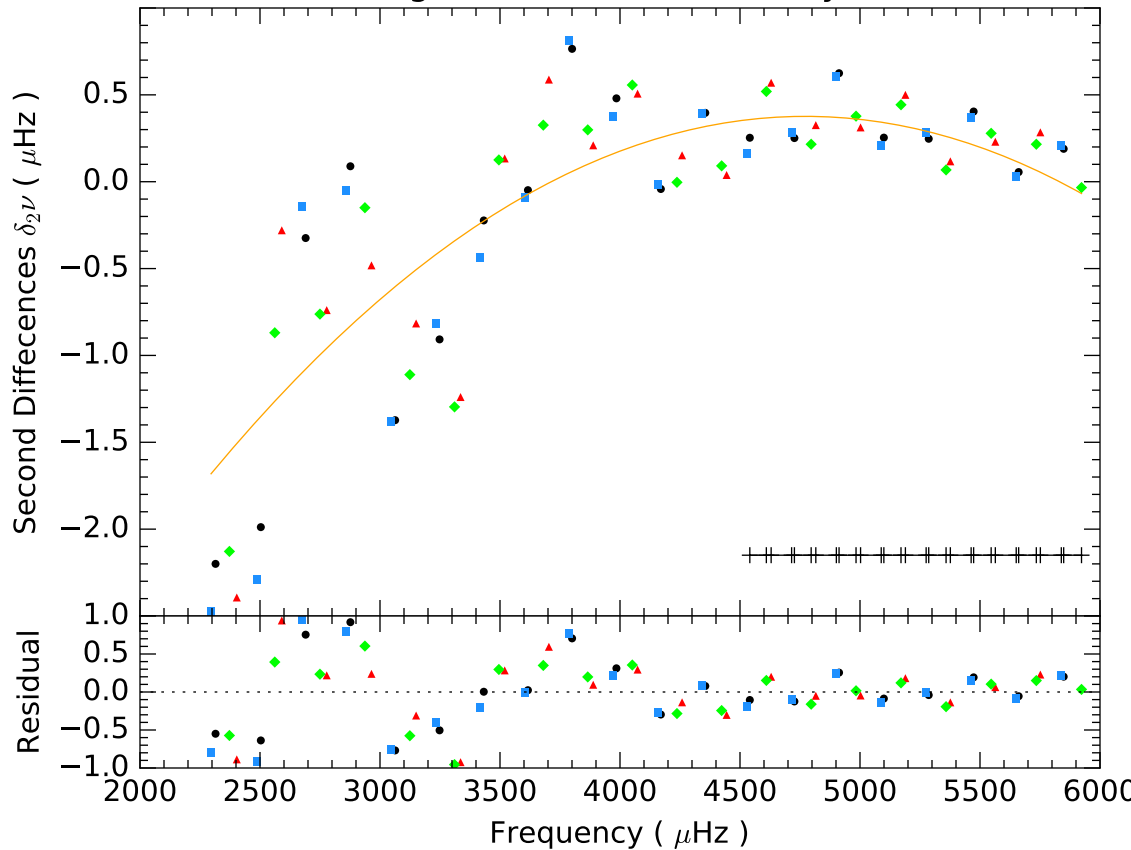
$$a_1 = 0.0032006$$

$$a_2 = -3.339e-07 \mu\text{Hz}^{-1}$$

profile31

$$\chi^2_\nu(\text{dof} = 76) = 0.1966$$

Age after ZAMS: 6.010 Gyr

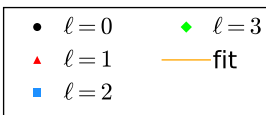
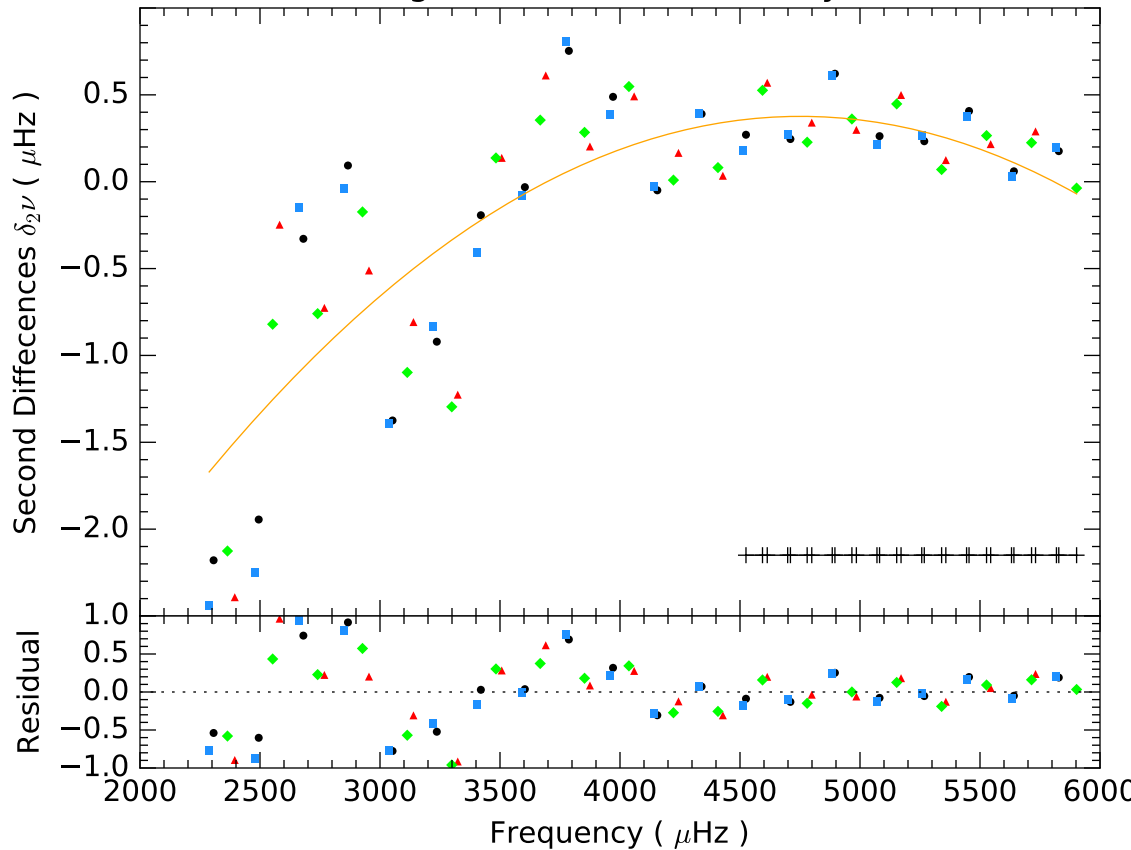


$$\begin{aligned}
 a_0 &= -7.2659 \mu\text{Hz} \\
 a_1 &= 0.0032026 \\
 a_2 &= -3.3554e-07 \mu\text{Hz}
 \end{aligned}$$

profile32

$$\chi^2_\nu(\text{dof} = 76) = 0.19531$$

Age after ZAMS: 6.310 Gyr

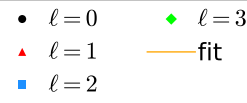
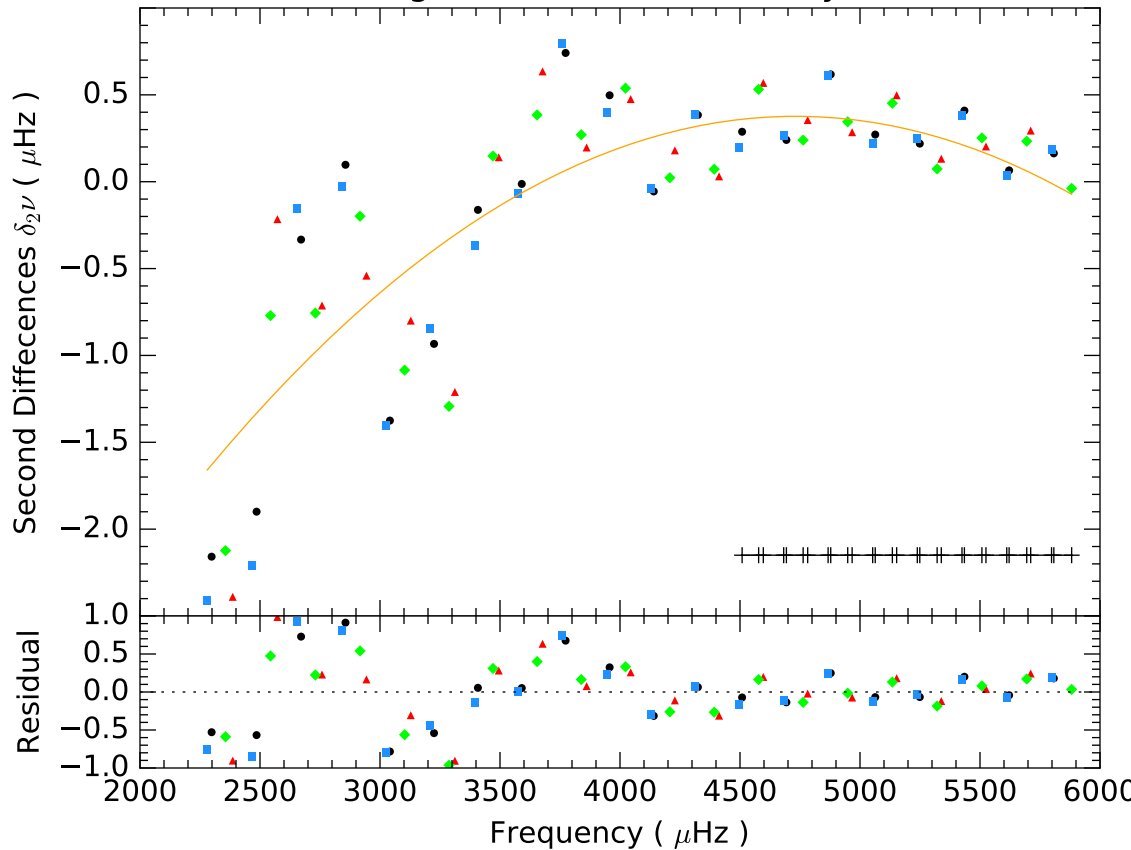


$$\begin{aligned}
 a_0 &= -7.2385 \mu \text{ Hz} \\
 a_1 &= 0.0032048 \\
 a_2 &= -3.3721e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile33

$$\chi^2_\nu(\text{dof} = 76) = 0.19408$$

Age after ZAMS: 6.610 Gyr

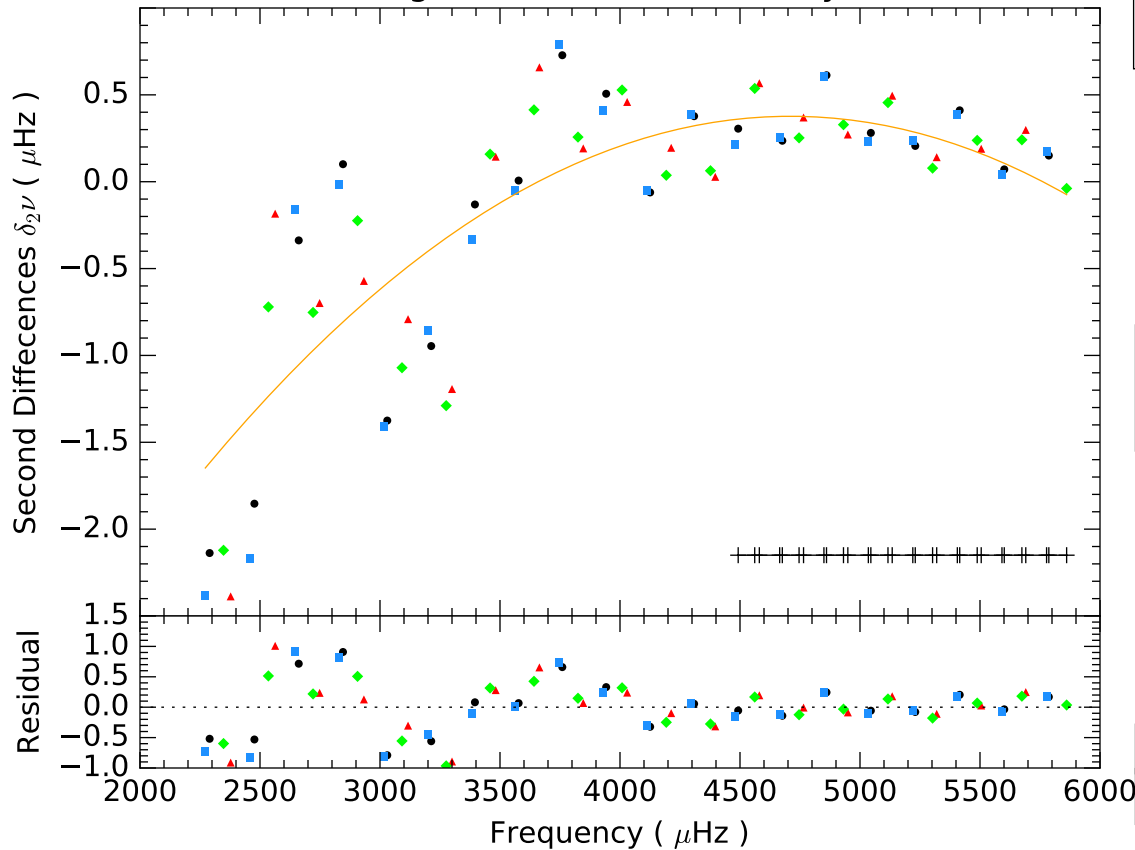


$$\begin{aligned}
 a_0 &= -7.2095 \mu \text{ Hz} \\
 a_1 &= 0.0032068 \\
 a_2 &= -3.3889e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile34

$$\chi^2_\nu(\text{dof} = 76) = 0.19291$$

Age after ZAMS: 6.910 Gyr



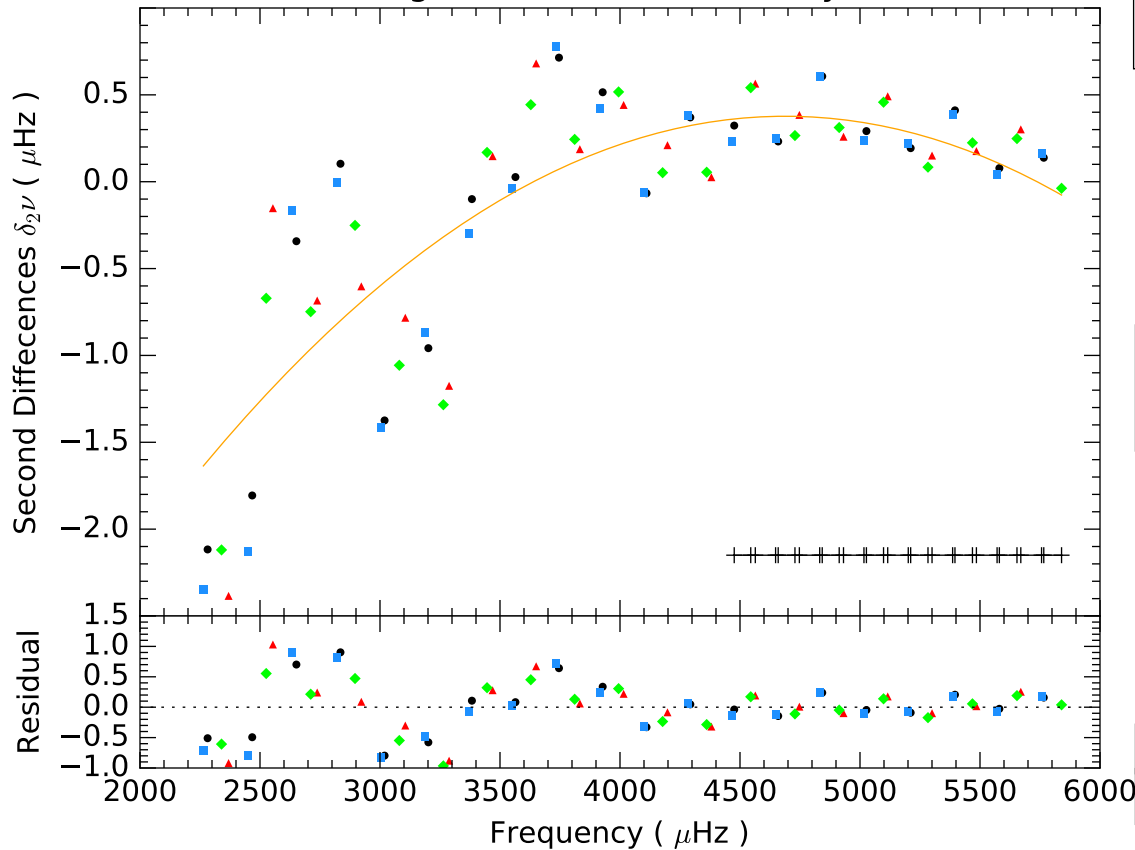
• $\ell=0$ ♦ $\ell=3$
▲ $\ell=1$ — fit
■ $\ell=2$

$a_0 = -7.1801 \mu\text{Hz}$
 $a_1 = 0.0032087$
 $a_2 = -3.4062e-07 \mu\text{Hz}^{-1}$

profile35

$\chi^2_{\nu}(\text{dof} = 76) = 0.19183$

Age after ZAMS: 7.210 Gyr



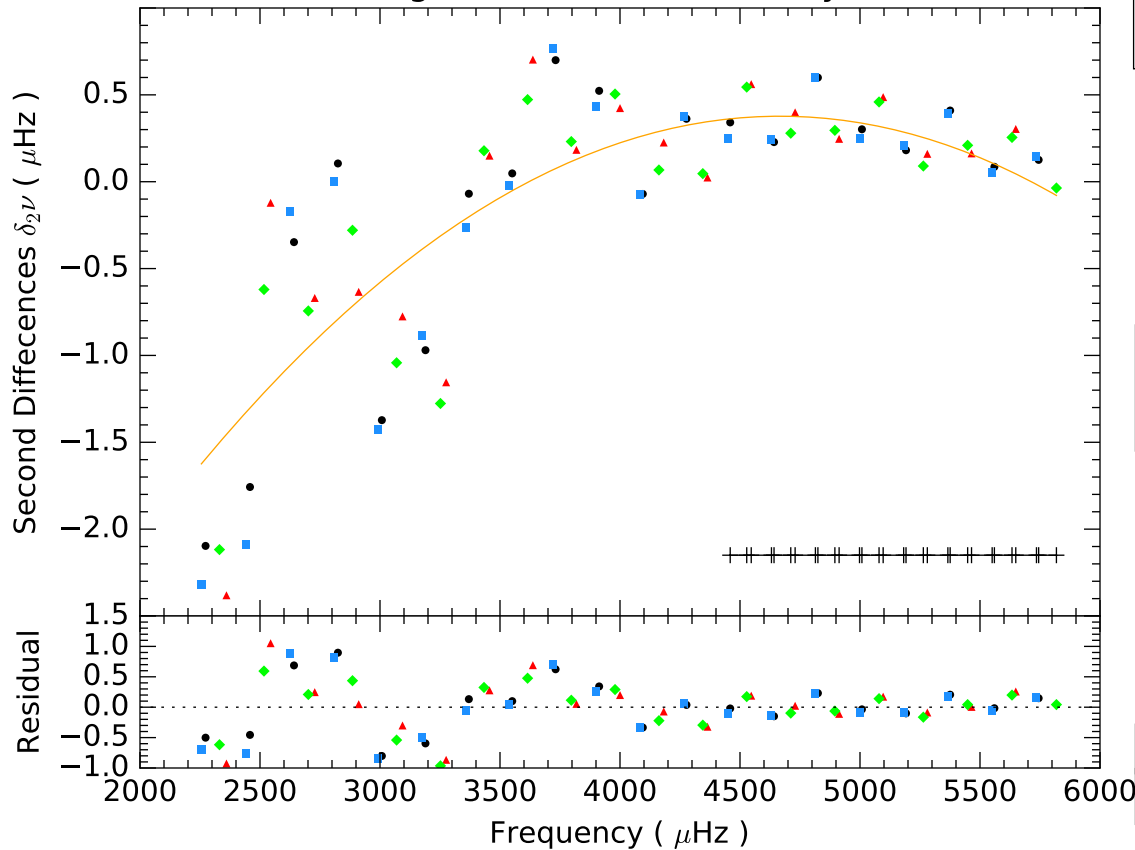
• $\ell=0$ ♦ $\ell=3$
▲ $\ell=1$ — fit
■ $\ell=2$

$a_0 = -7.1502 \mu\text{Hz}$
 $a_1 = 0.0032107$
 $a_2 = -3.4238e-07 \mu\text{Hz}^{-1}$

profile36

$\chi^2_\nu(\text{dof} = 76) = 0.19082$

Age after ZAMS: 7.510 Gyr



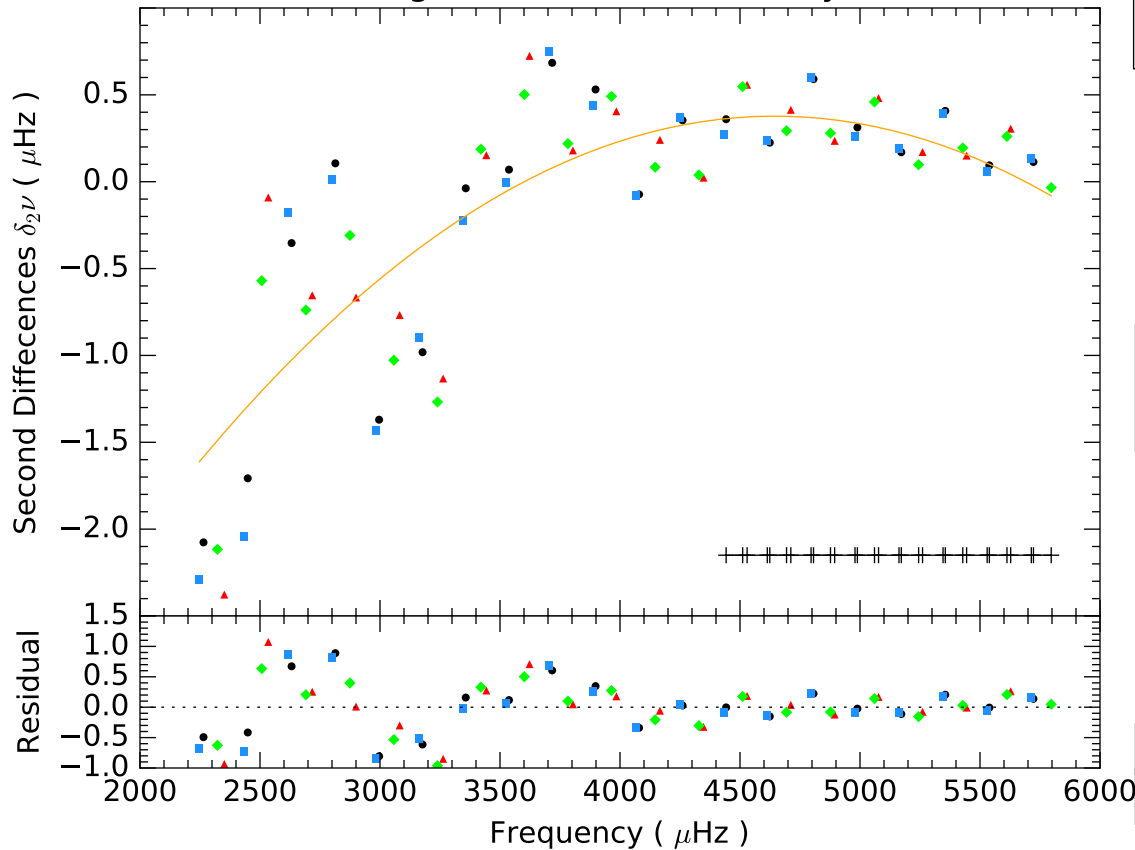
• $\ell=0$ ♦ $\ell=3$
▲ $\ell=1$ — fit
■ $\ell=2$

$a_0 = -7.1197 \mu\text{Hz}$
 $a_1 = 0.0032126$
 $a_2 = -3.4418e-07 \mu\text{Hz}^{-1}$

profile37

$\chi^2_\nu(\text{dof} = 76) = 0.18987$

Age after ZAMS: 7.810 Gyr



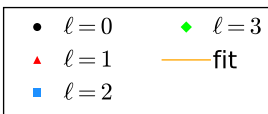
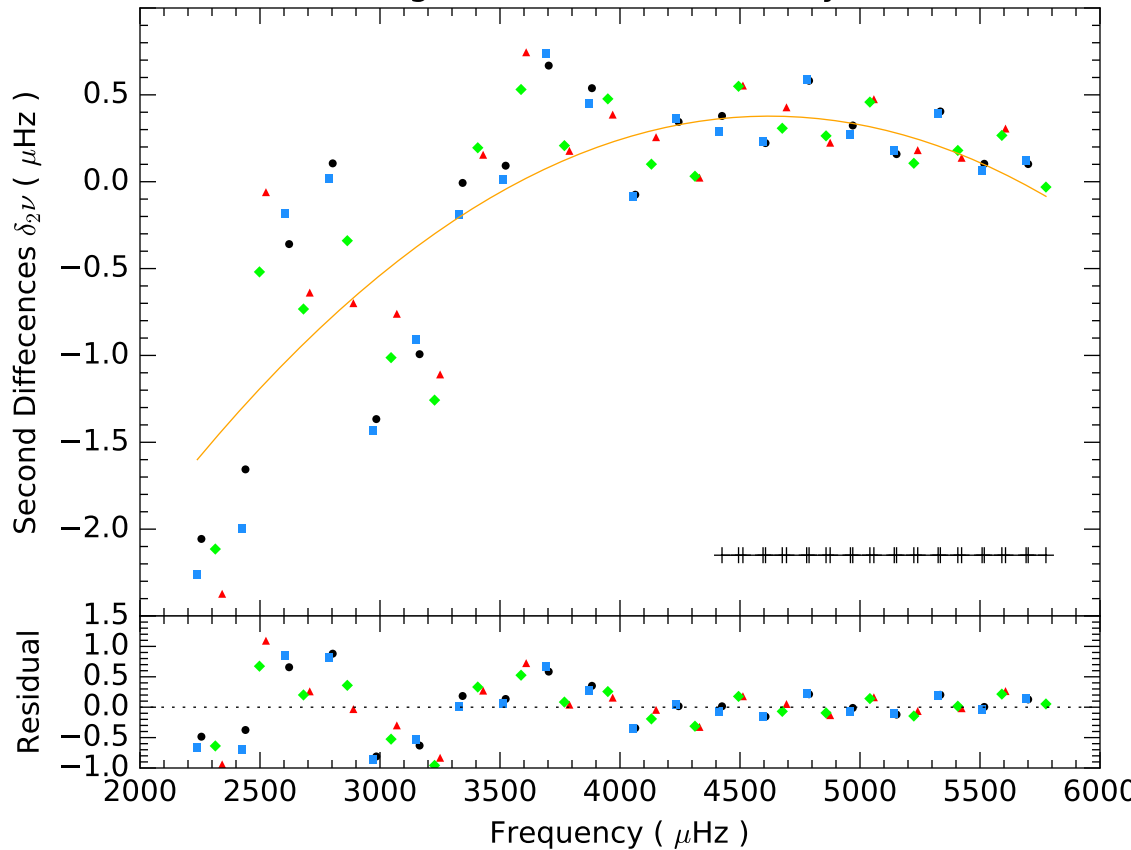
• $\ell=0$ ♦ $\ell=3$
▲ $\ell=1$ — fit
■ $\ell=2$

$a_0 = -7.0887 \mu\text{Hz}$
 $a_1 = 0.0032146$
 $a_2 = -3.4602e-07 \mu\text{Hz}^{-1}$

profile38

$\chi^2_{\nu}(\text{dof} = 76) = 0.18901$

Age after ZAMS: 8.110 Gyr

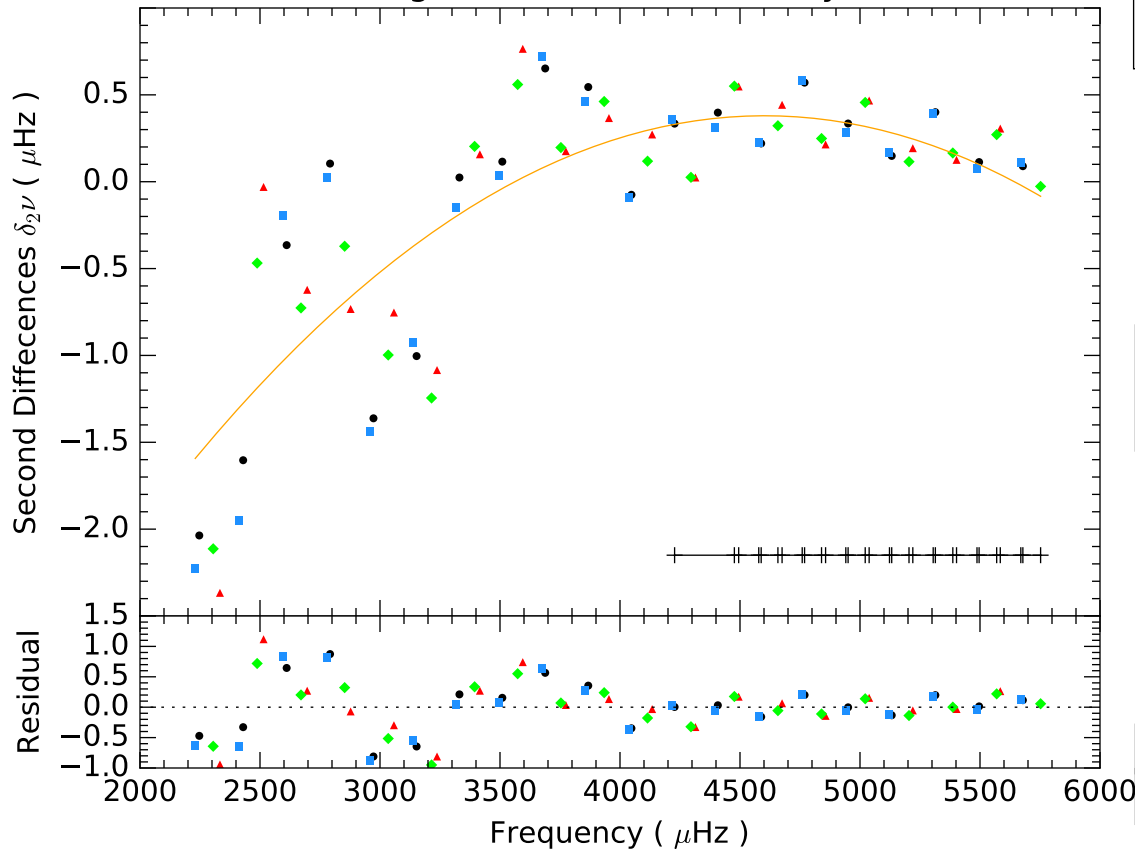


$$\begin{aligned}
 a_0 &= -7.0571 \mu\text{Hz} \\
 a_1 &= 0.0032165 \\
 a_2 &= -3.4789e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile39

$$\chi^2_\nu(\text{dof} = 76) = 0.18822$$

Age after ZAMS: 8.410 Gyr



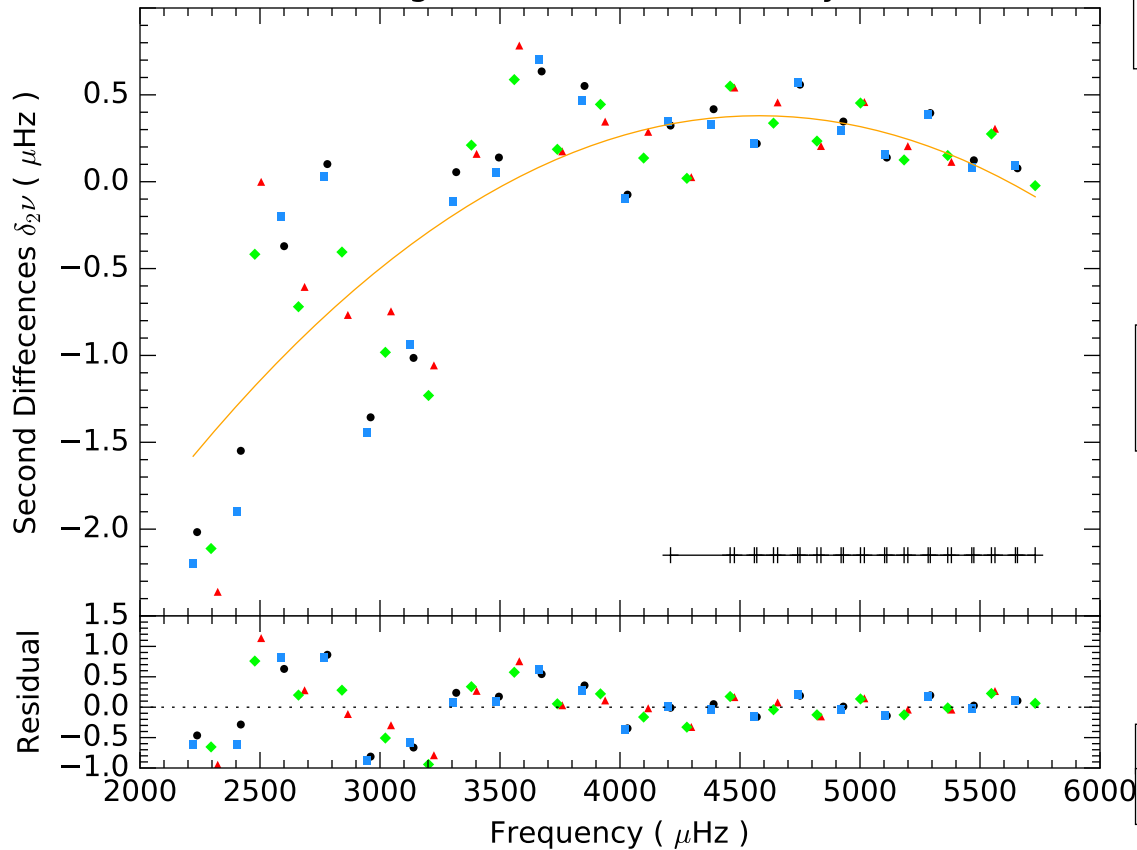
- \bullet $\ell=0$
- \blacktriangle $\ell=1$
- \blacksquare $\ell=2$
- \blacklozenge $\ell=3$
- fit

$$\begin{aligned}a_0 &= -7.0453 \mu\text{Hz} \\a_1 &= 0.0032265 \\a_2 &= -3.5051e-07 \mu\text{Hz}^{-1}\end{aligned}$$

profile40

$$\chi^2_\nu(\text{dof} = 76) = 0.18728$$

Age after ZAMS: 8.710 Gyr



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

$$a_0 = -7.0127 \mu\text{Hz}$$

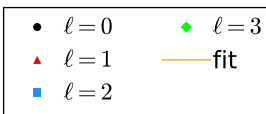
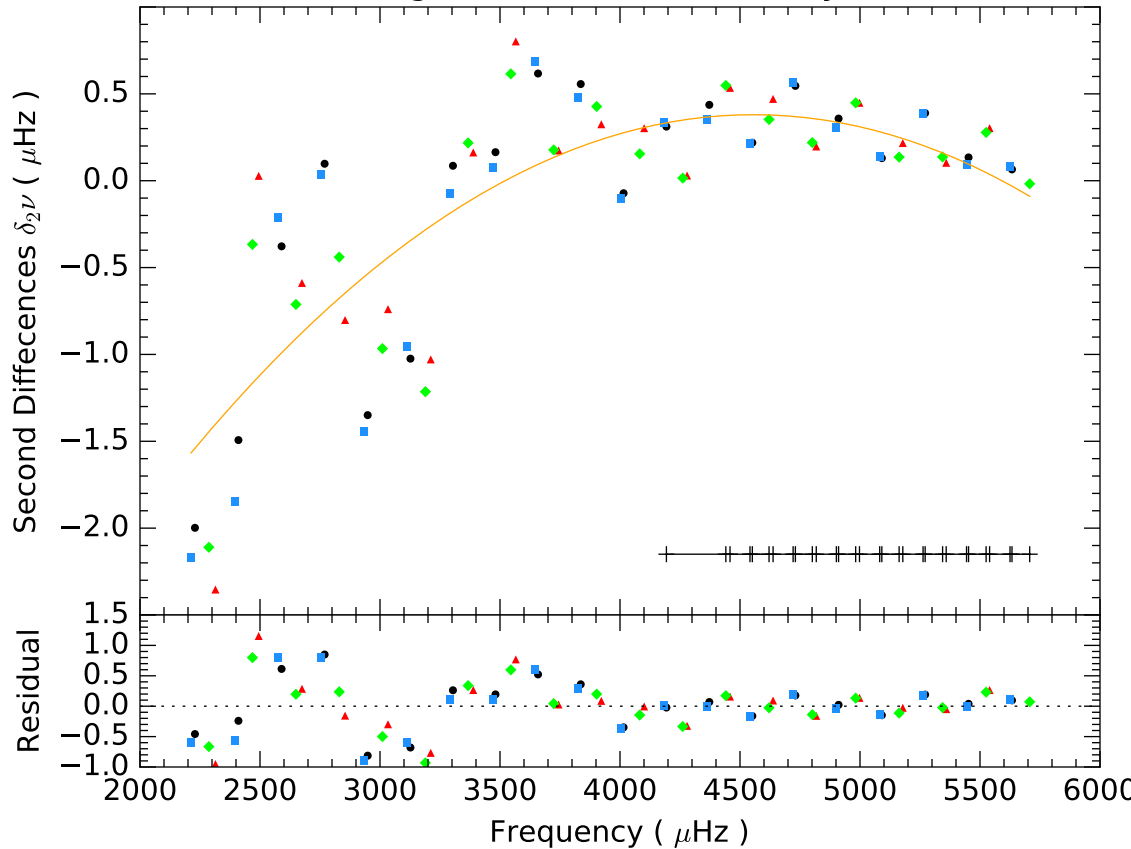
$$a_1 = 0.0032285$$

$$a_2 = -3.5249e-07 \mu\text{Hz}^{-1}$$

profile41

$$\chi^2_\nu(\text{dof} = 76) = 0.18663$$

Age after ZAMS: 9.010 Gyr

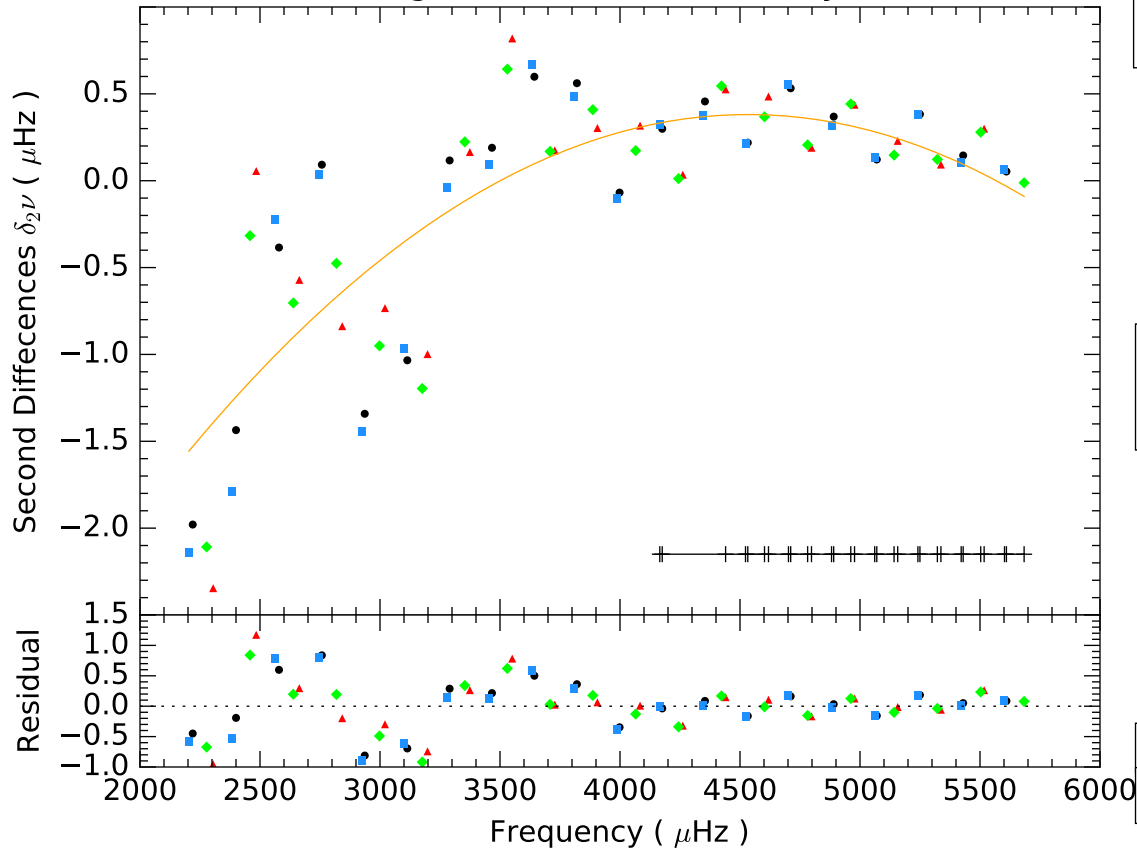


$$\begin{aligned}
 a_0 &= -6.9795 \mu\text{Hz} \\
 a_1 &= 0.0032305 \\
 a_2 &= -3.5452e-07 \mu\text{Hz}
 \end{aligned}$$

profile42

$$\chi^2_\nu(\text{dof} = 76) = 0.18607$$

Age after ZAMS: 9.310 Gyr



$$a_0 = -6.9531 \mu \text{ Hz}$$

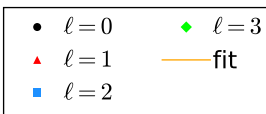
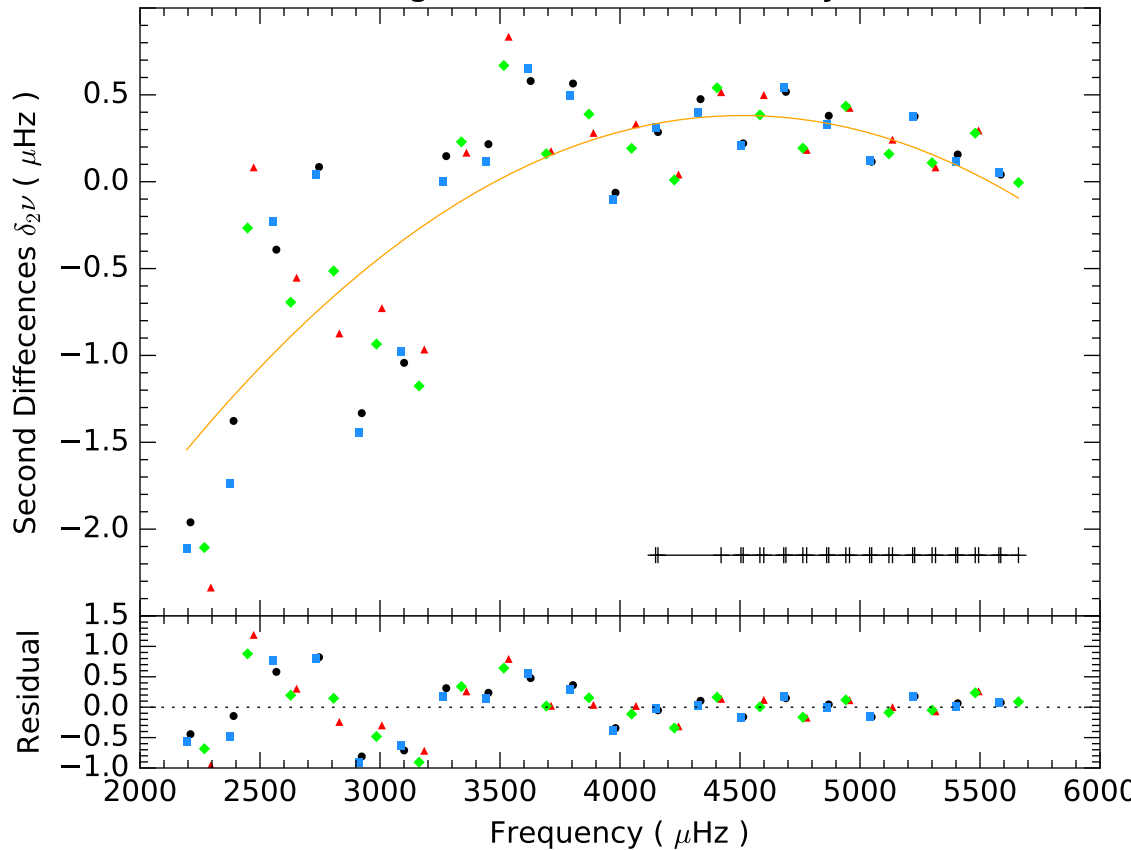
$$a_1 = 0.003235$$

$$a_2 = -3.5674e-07 \mu\text{Hz}^{-1}$$

profile43

$$\chi^2_\nu(\text{dof} = 76) = 0.18547$$

Age after ZAMS: 9.610 Gyr

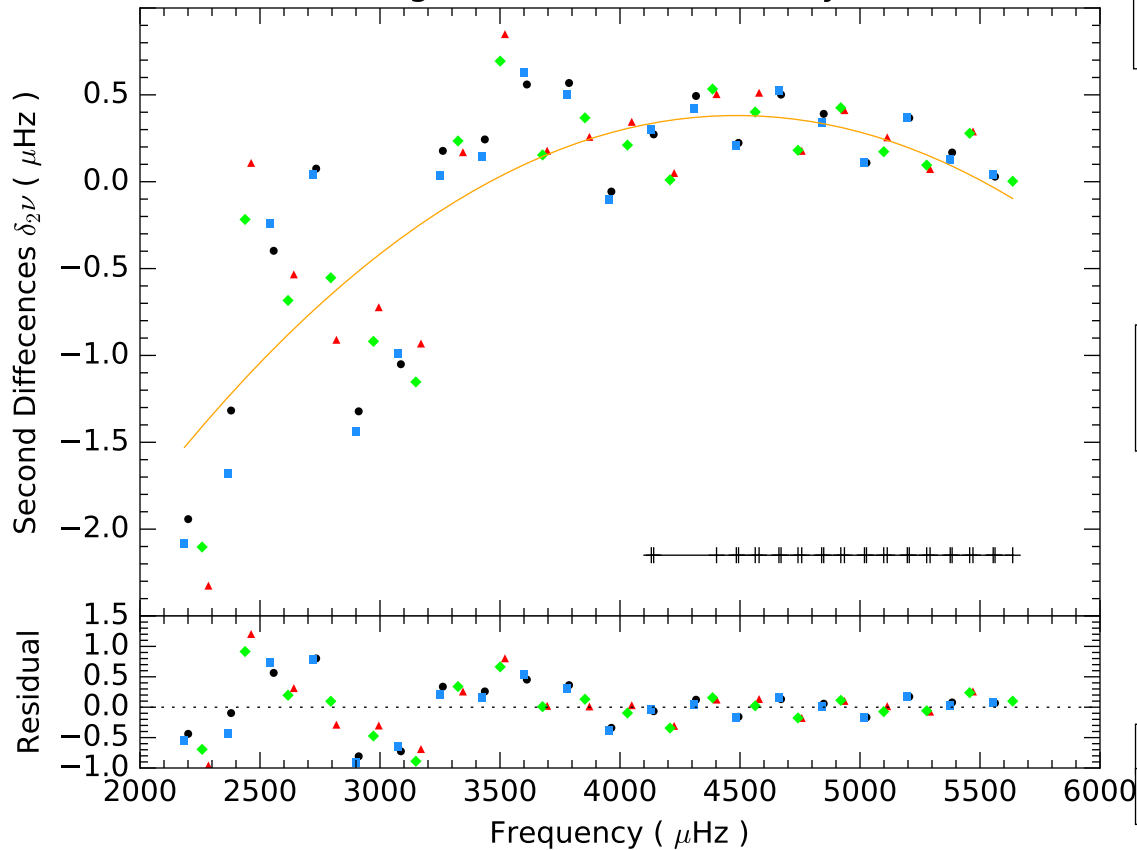


$a_0 = -6.9188 \mu \text{ Hz}$
 $a_1 = 0.0032371$
 $a_2 = -3.5888e-07 \mu\text{Hz}^{-1}$

profile44

$\chi^2_\nu(\text{dof} = 76) = 0.18501$

Age after ZAMS: 9.910 Gyr



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

$$a_0 = -6.884 \mu\text{Hz}$$

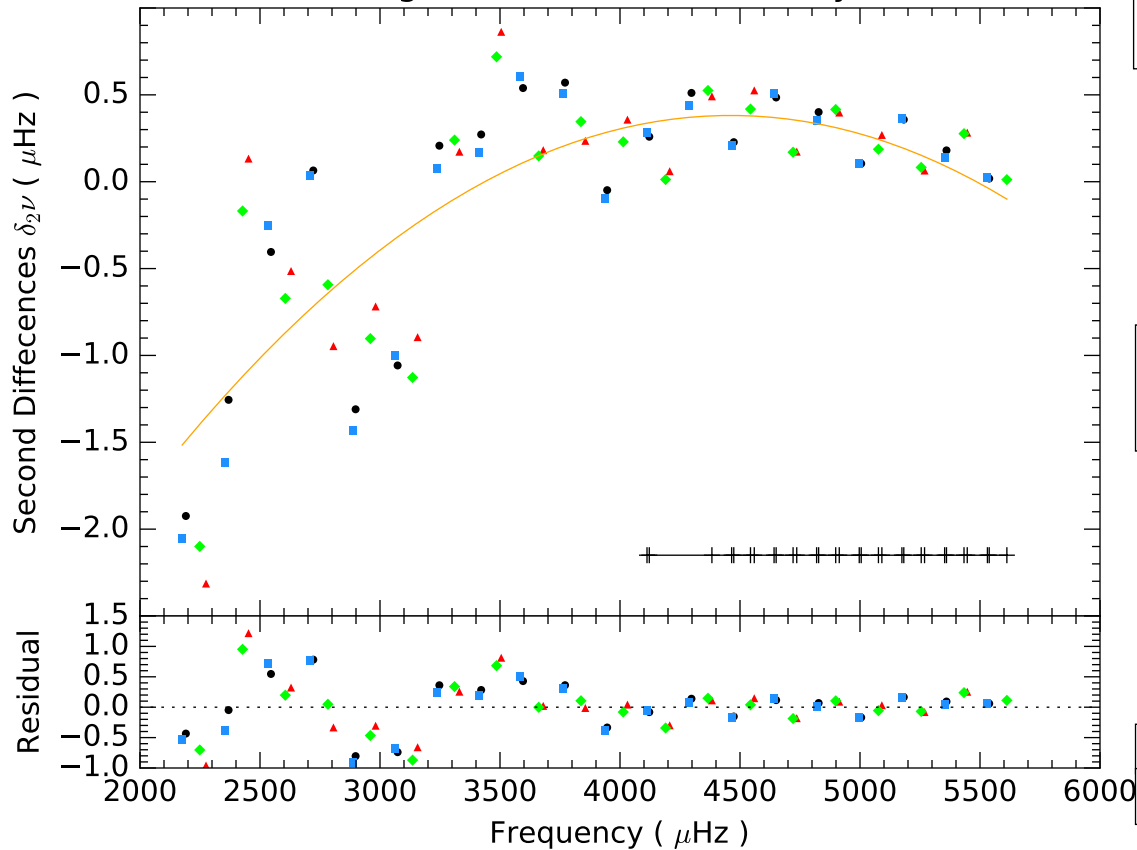
$$a_1 = 0.0032393$$

$$a_2 = -3.6108e-07 \mu\text{Hz}^{-1}$$

profile45

$$\chi^2_\nu(\text{dof} = 76) = 0.18457$$

Age after ZAMS: 10.210 Gyr

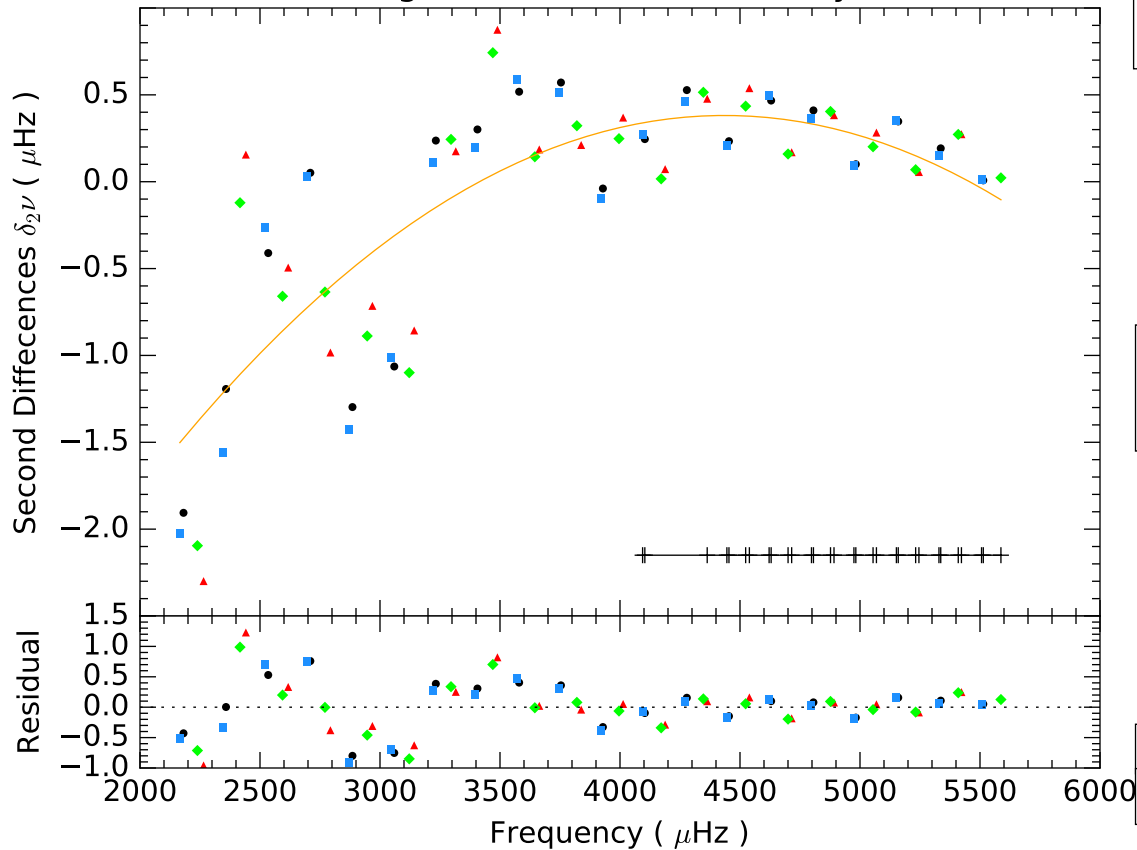


$$\begin{aligned} a_0 &= -6.8483 \mu\text{Hz} \\ a_1 &= 0.0032414 \\ a_2 &= -3.6333e-07 \mu\text{Hz} \end{aligned}$$

profile46

$$\chi^2_\nu(\text{dof} = 76) = 0.1842$$

Age after ZAMS: 10.510 Gyr



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

$$a_0 = -6.8126 \mu\text{Hz}$$

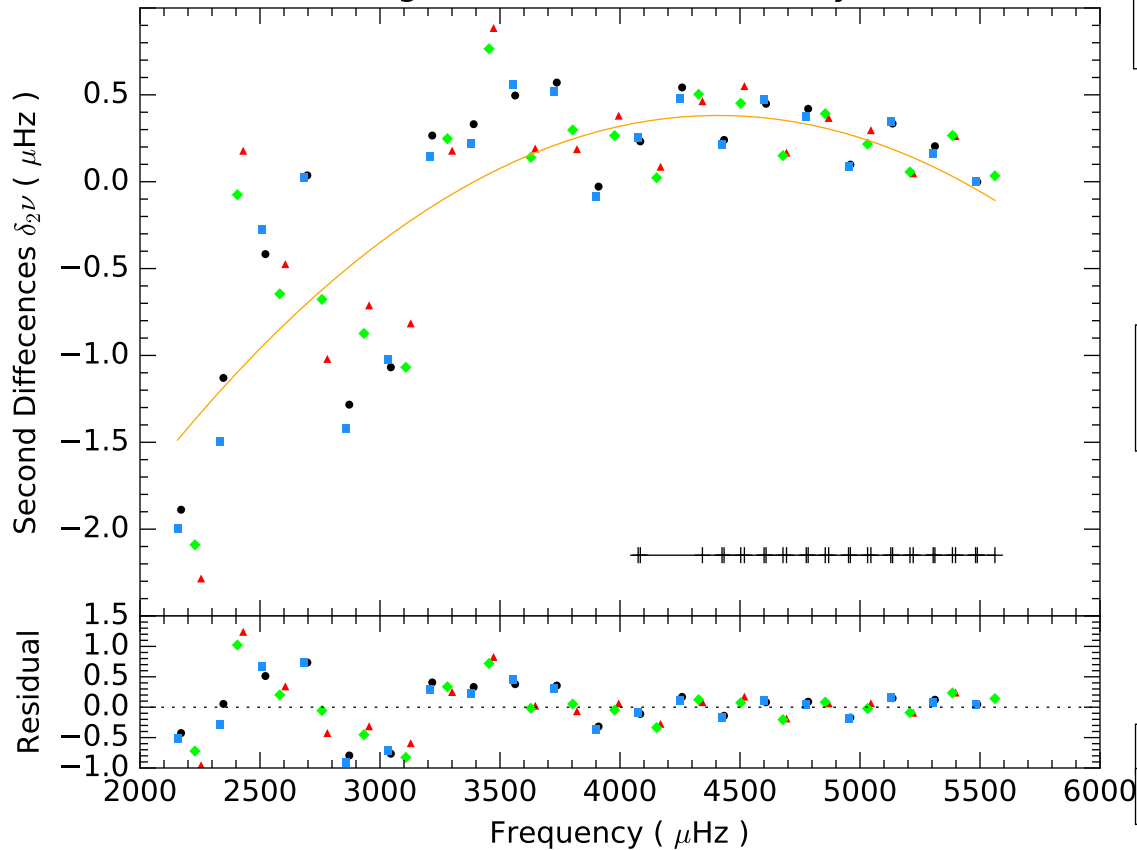
$$a_1 = 0.0032439$$

$$a_2 = -3.6567e-07 \mu\text{Hz}$$

profile47

$$\chi^2_\nu(\text{dof} = 76) = 0.18384$$

Age after ZAMS: 10.810 Gyr



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

$$a_0 = -6.776 \mu\text{Hz}$$

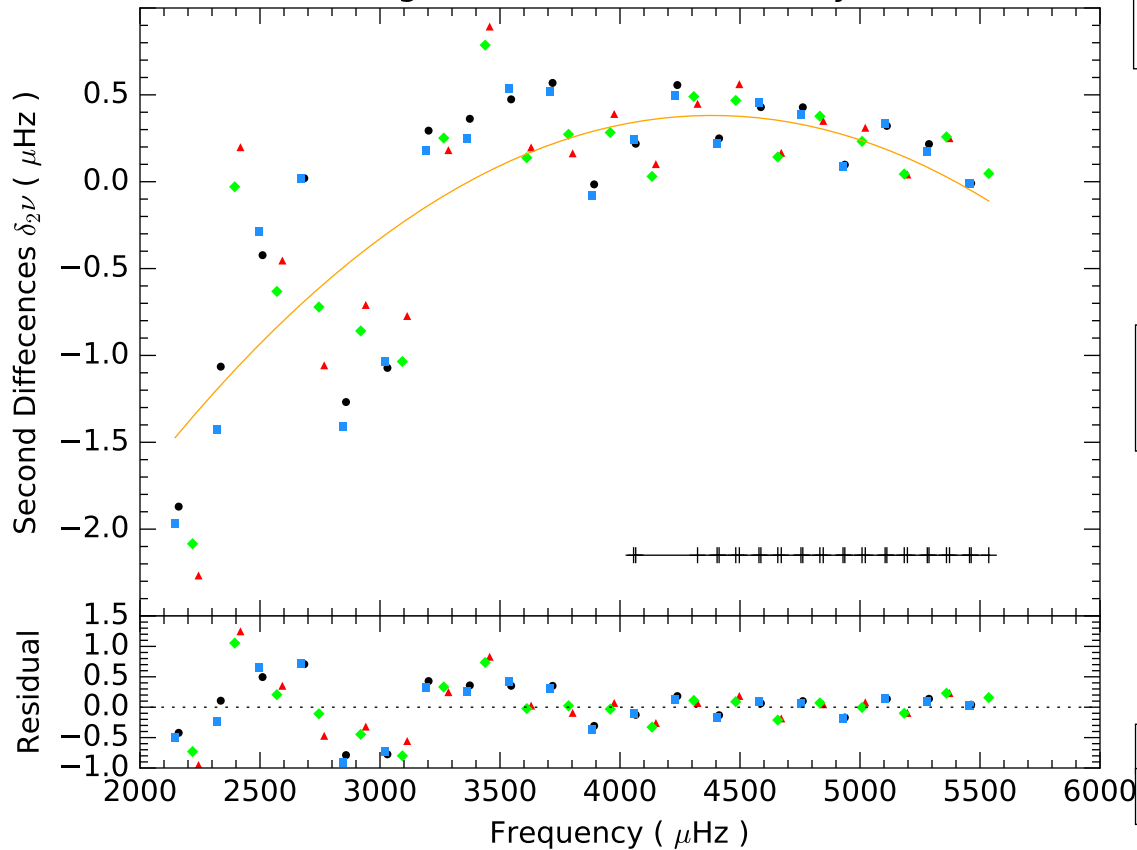
$$a_1 = 0.0032462$$

$$a_2 = -3.6808e-07 \mu\text{Hz}^{-1}$$

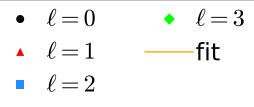
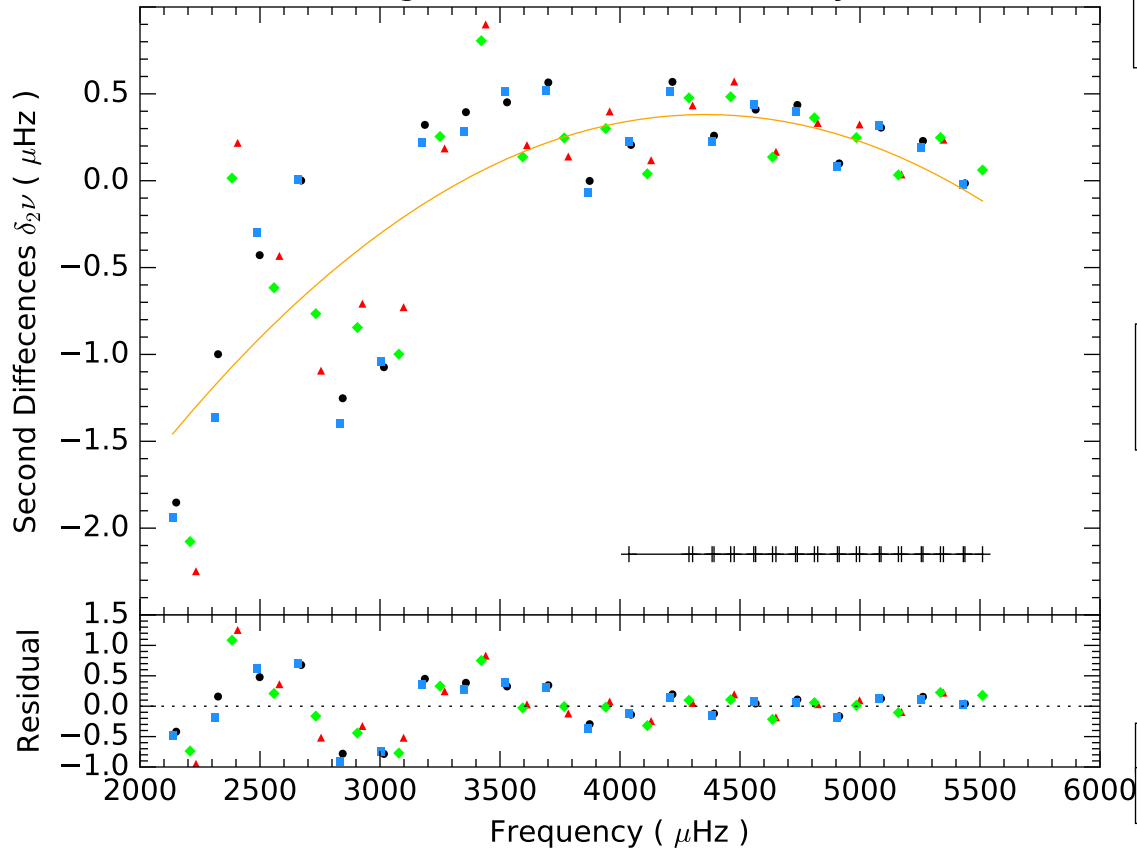
profile48

$$\chi^2_\nu(\text{dof} = 76) = 0.18356$$

Age after ZAMS: 11.110 Gyr



Age after ZAMS: 11.410 Gyr

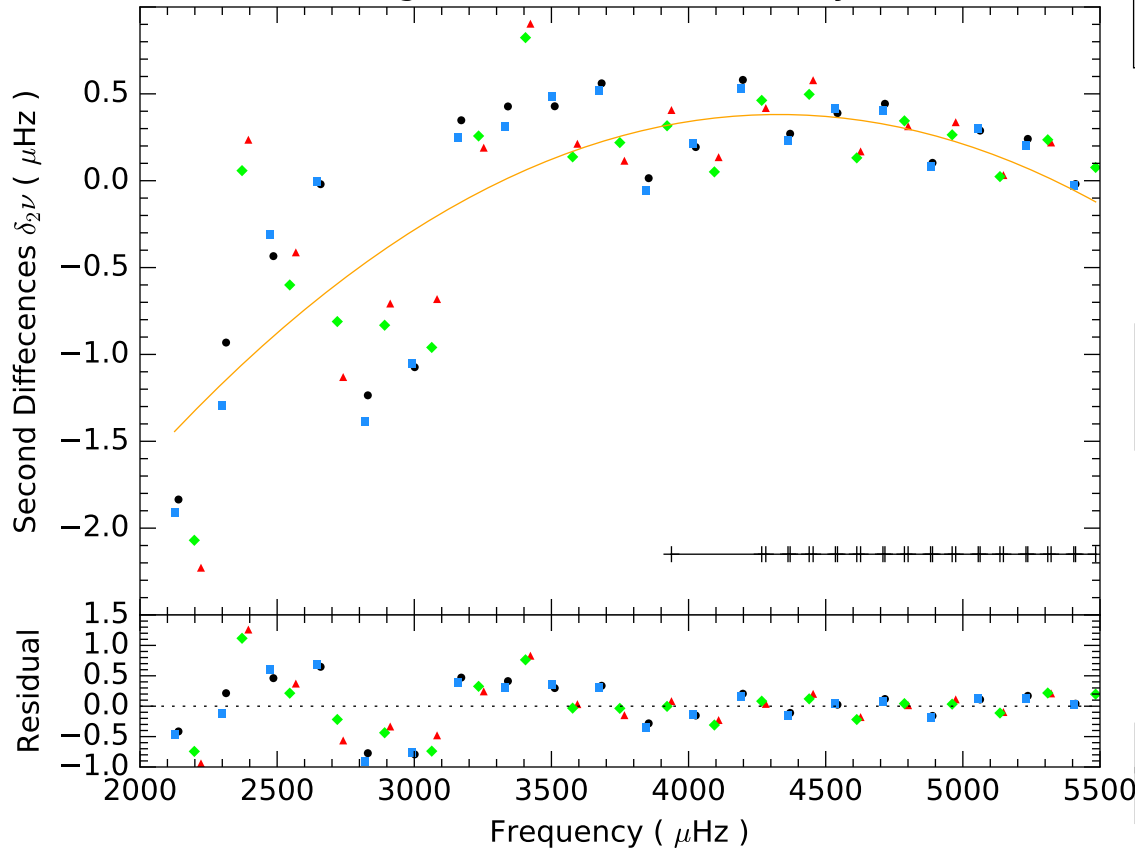


$$\begin{aligned}
 a_0 &= -6.7005 \mu \text{ Hz} \\
 a_1 &= 0.0032518 \\
 a_2 &= -3.7329e-07 \mu \text{ Hz}
 \end{aligned}$$

profile50

$$\chi^2_\nu(\text{dof} = 76) = 0.18324$$

Age after ZAMS: 11.710 Gyr



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

$$a_0 = -6.6691 \mu\text{Hz}$$

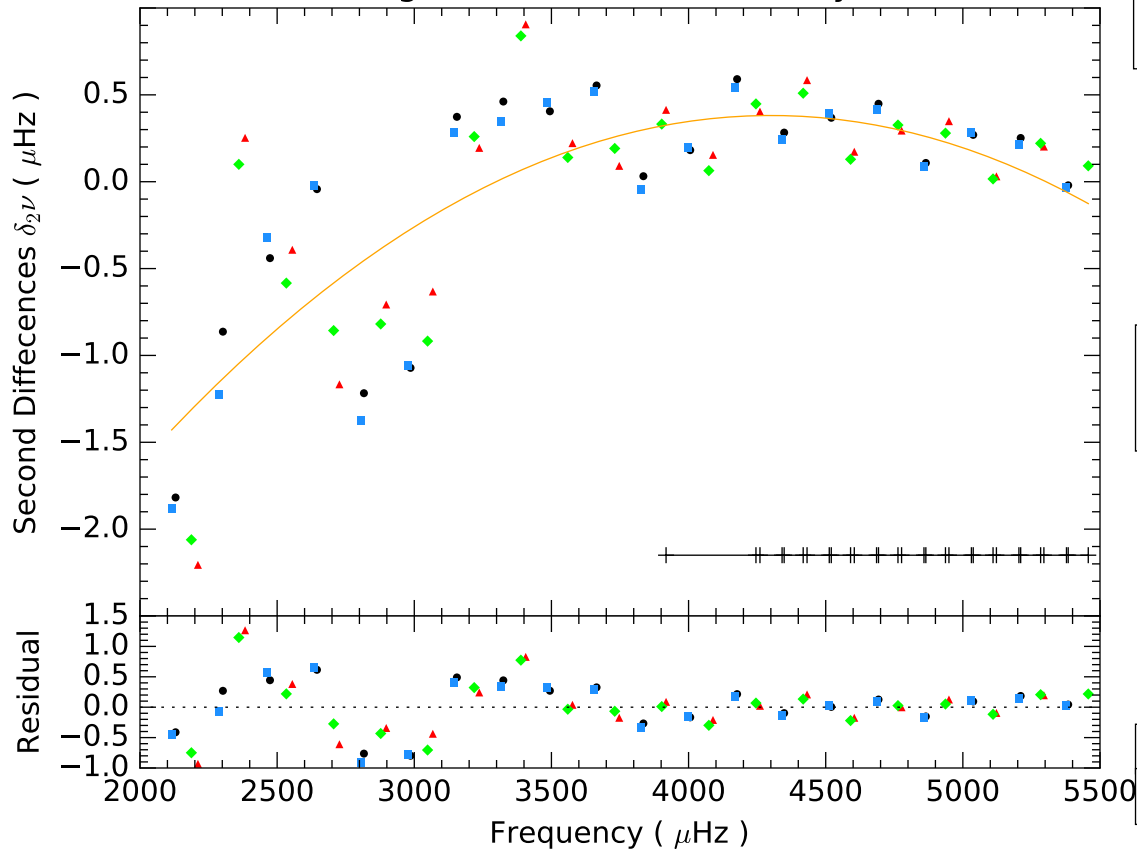
$$a_1 = 0.003258$$

$$a_2 = -3.7638e-07 \mu\text{Hz}^{-1}$$

profile51

$$\chi^2_\nu(\text{dof} = 76) = 0.18322$$

Age after ZAMS: 12.010 Gyr



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

$$a_0 = -6.6309 \mu\text{Hz}$$

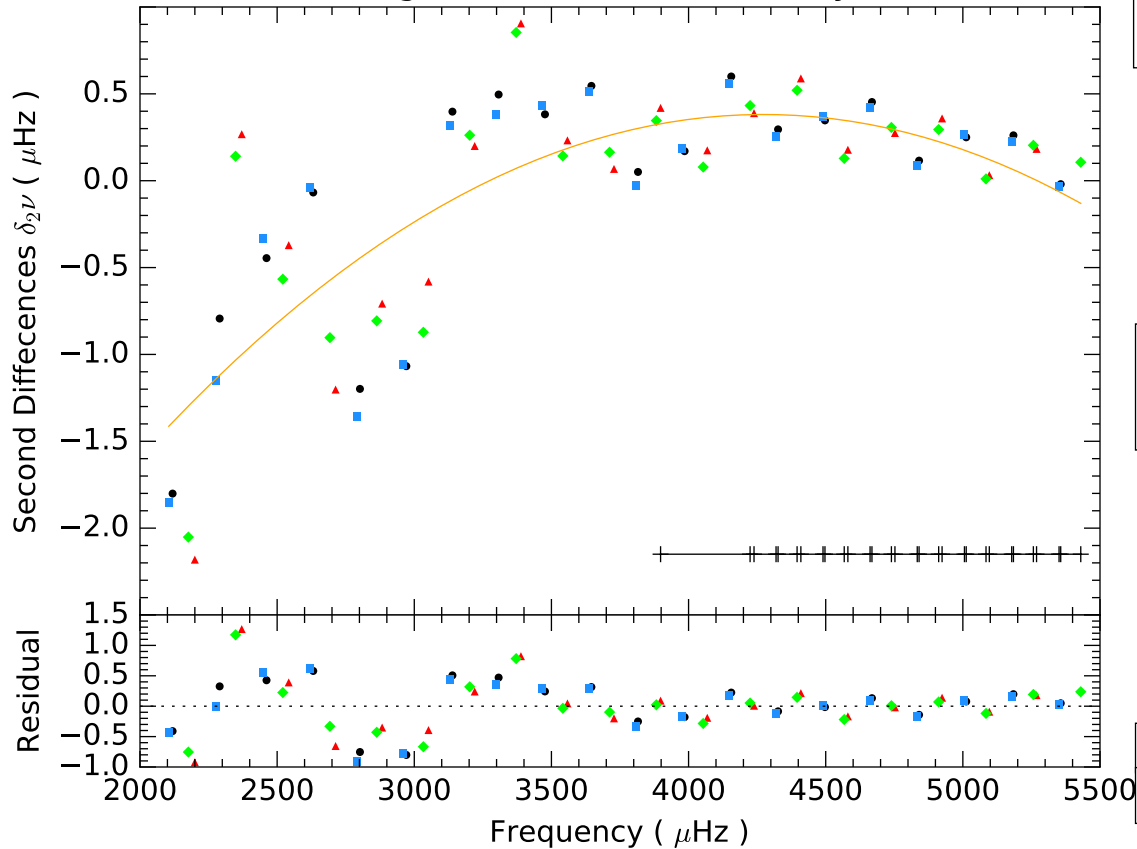
$$a_1 = 0.003261$$

$$a_2 = -3.7914e-07 \mu\text{Hz}^{-1}$$

profile52

$$\chi^2_\nu(\text{dof} = 76) = 0.18328$$

Age after ZAMS: 12.310 Gyr



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

$$a_0 = -6.5923 \mu\text{Hz}$$

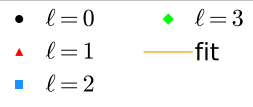
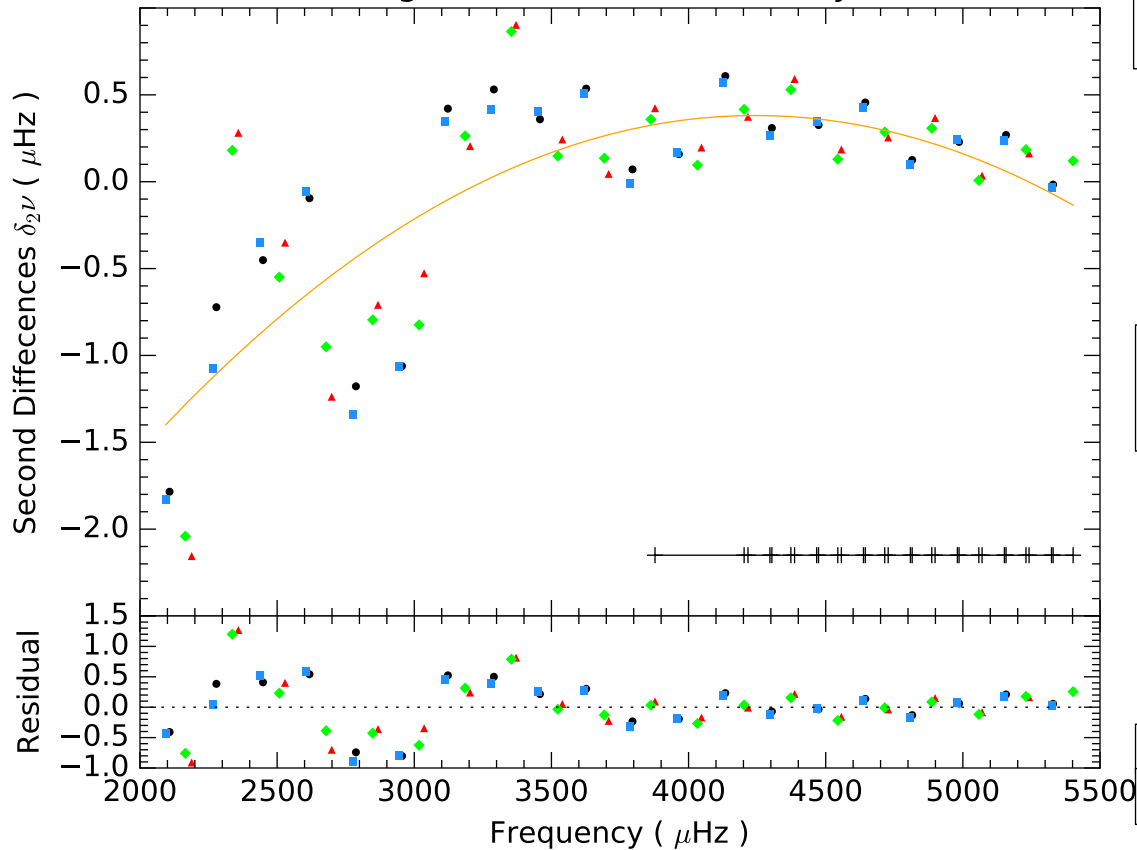
$$a_1 = 0.0032644$$

$$a_2 = -3.8202e-07 \mu\text{Hz}^{-1}$$

profile53

$$\chi^2_\nu(\text{dof} = 76) = 0.18345$$

Age after ZAMS: 12.610 Gyr



$$a_0 = -6.5536 \mu \text{ Hz}$$

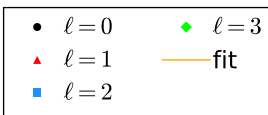
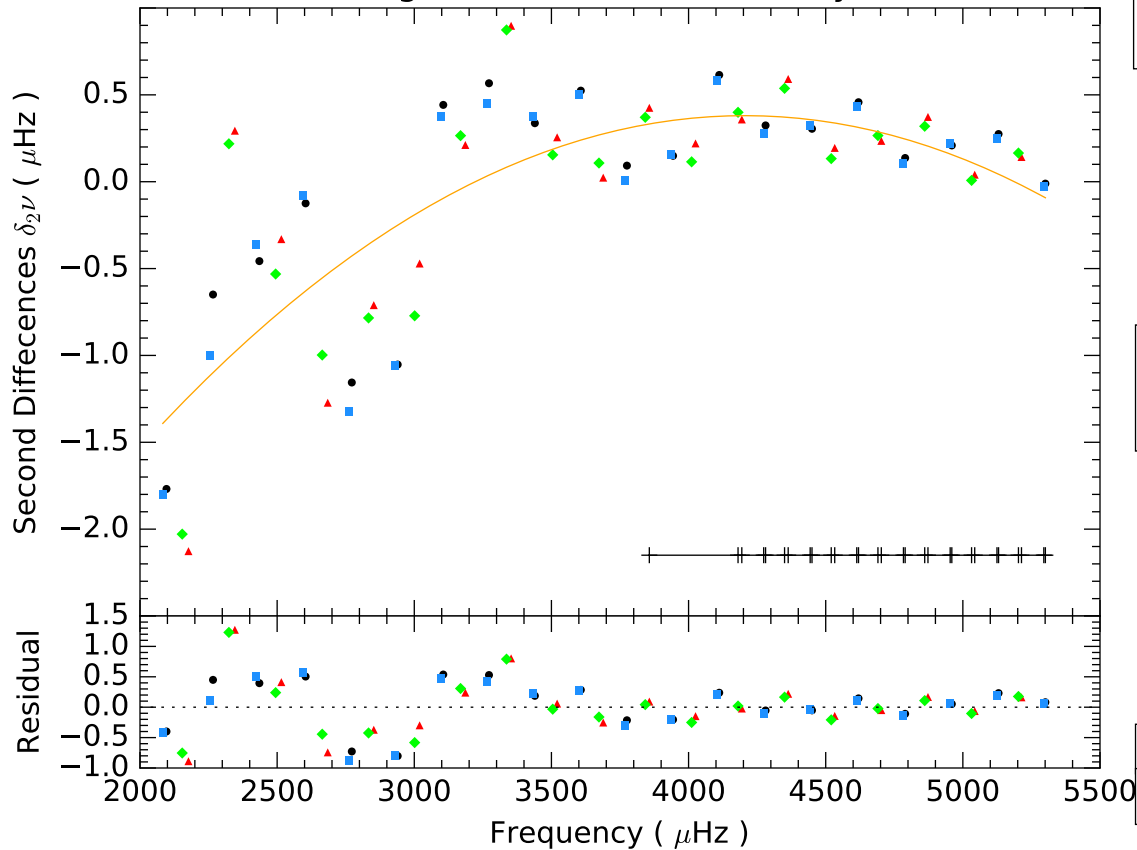
$$a_1 = 0.003268$$

$$a_2 = -3.8502e-07 \mu\text{Hz}^{-1}$$

profile54

$$\chi^2_\nu(\text{dof} = 76) = 0.18371$$

Age after ZAMS: 12.910 Gyr

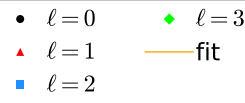
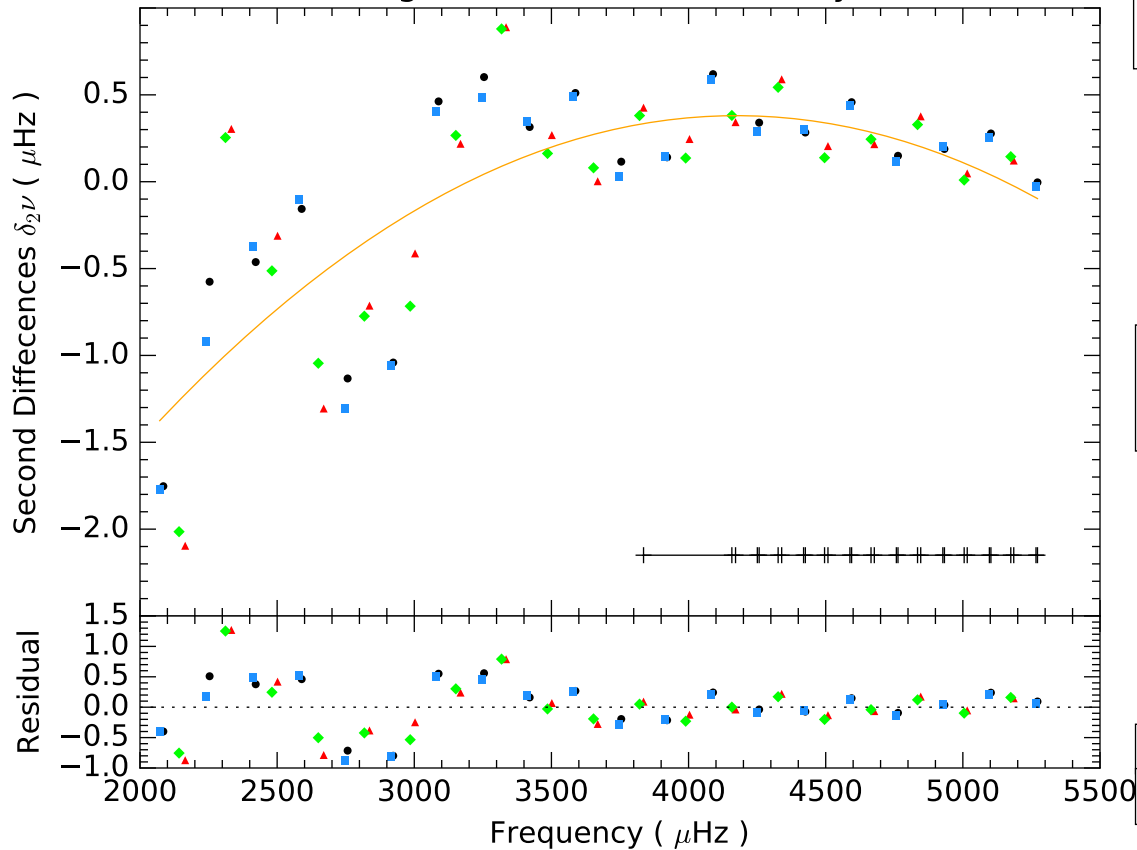


$$\begin{aligned}
 a_0 &= -6.5778 \mu \text{ Hz} \\
 a_1 &= 0.0033095 \\
 a_2 &= -3.9352e-07 \mu \text{ Hz}
 \end{aligned}$$

profile55

$$\chi^2_\nu(\text{dof} = 75) = 0.18571$$

Age after ZAMS: 13.210 Gyr

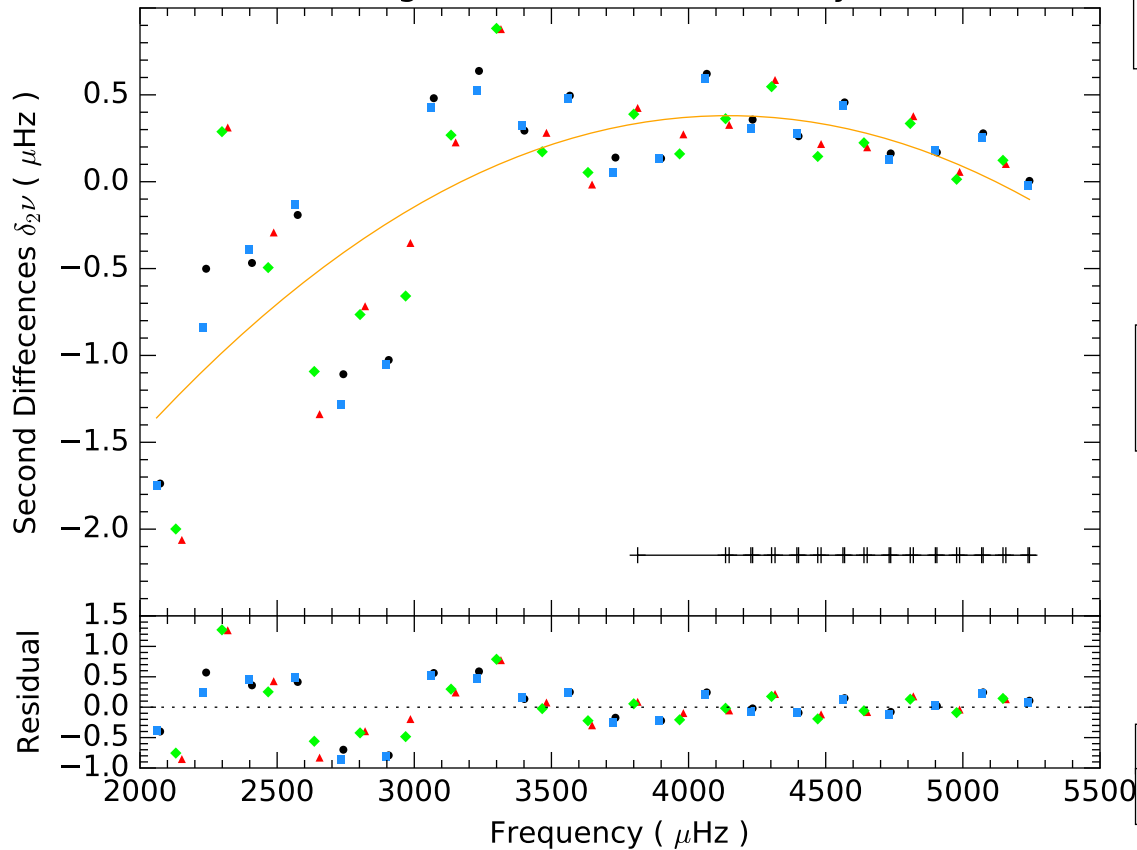


$$\begin{aligned}
 a_0 &= -6.5382 \mu \text{ Hz} \\
 a_1 &= 0.003314 \\
 a_2 &= -3.9685e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile56

$$\chi^2_\nu(\text{dof} = 75) = 0.18599$$

Age after ZAMS: 13.510 Gyr



$$a_0 = -6.4981 \mu \text{ Hz}$$

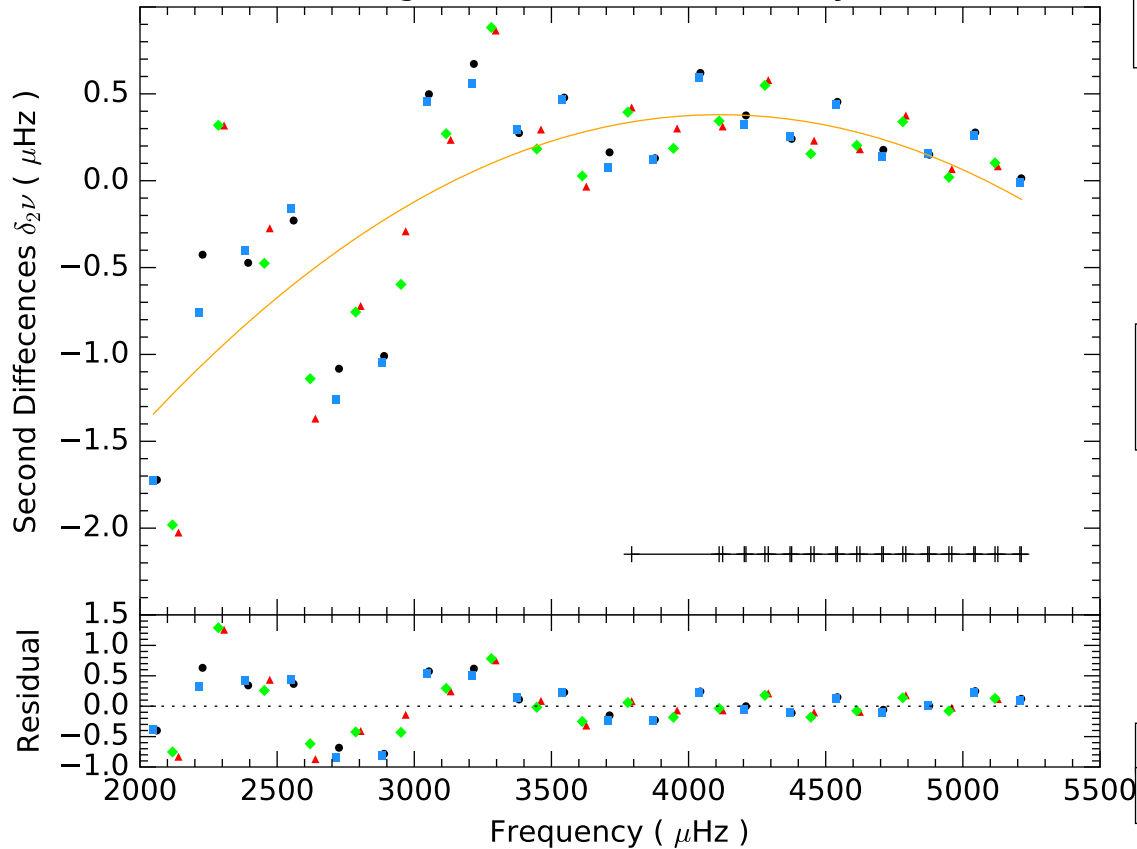
$$a_1 = 0.0033187$$

$$a_2 = -4.0031e-07 \mu \text{ Hz}$$

profile57

$$\chi^2_\nu(\text{dof} = 75) = 0.18637$$

Age after ZAMS: 13.810 Gyr



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

$$a_0 = -6.4581 \mu\text{Hz}$$

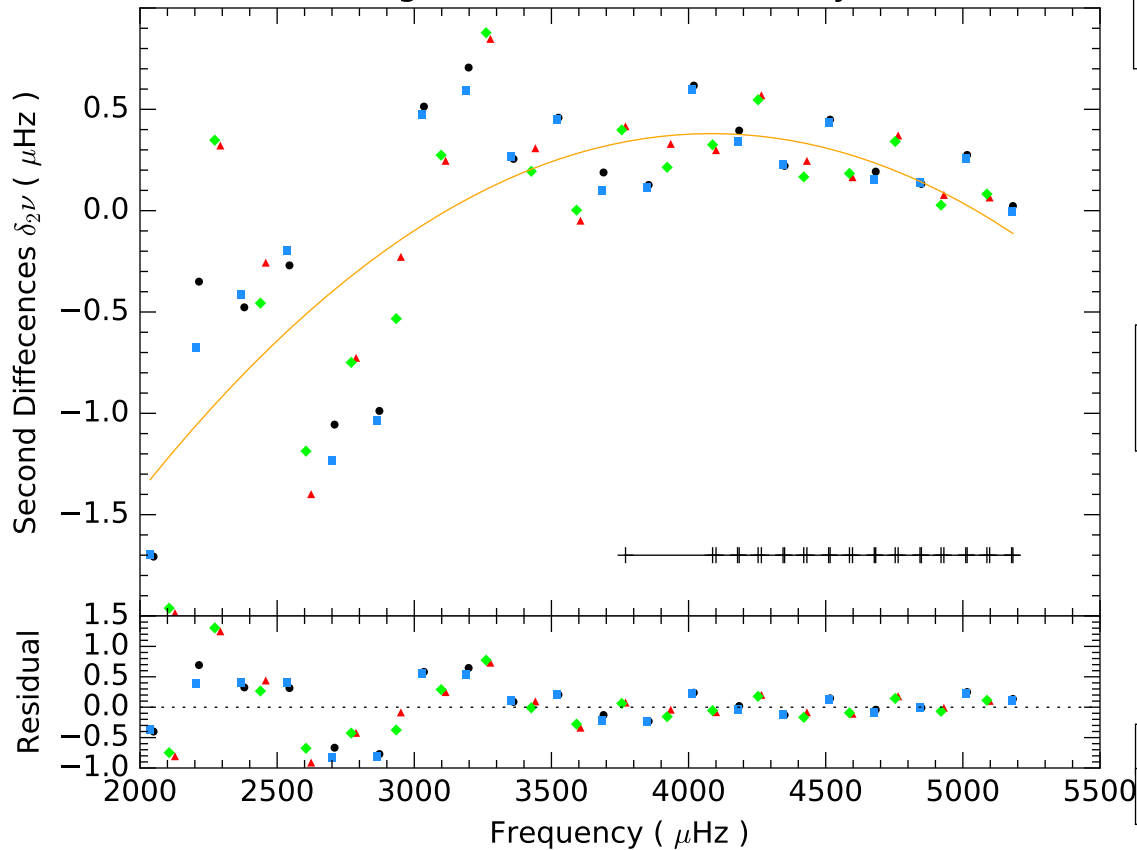
$$a_1 = 0.003324$$

$$a_2 = -4.0394e-07 \mu\text{Hz}$$

profile58

$$\chi^2_\nu(\text{dof} = 75) = 0.18681$$

Age after ZAMS: 14.110 Gyr



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

$$a_0 = -6.418 \mu\text{Hz}$$

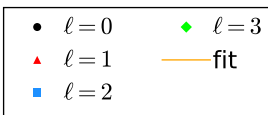
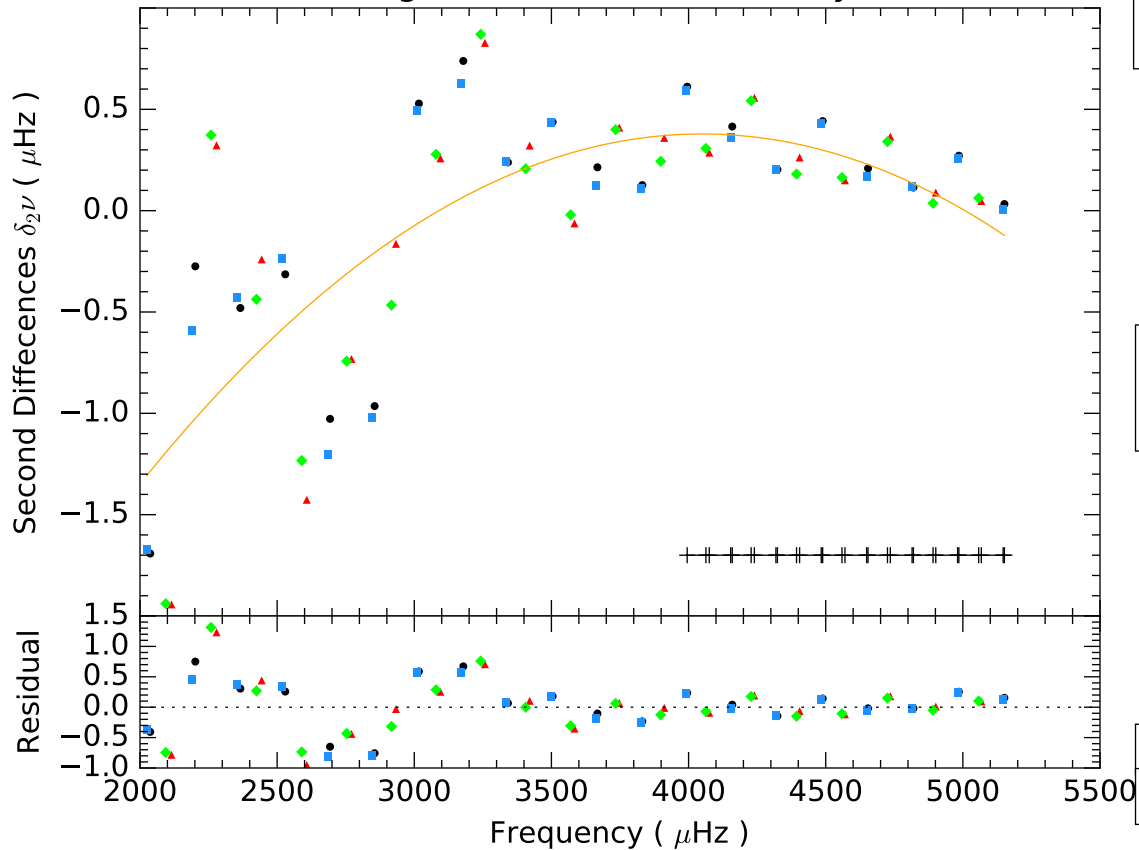
$$a_1 = 0.0033298$$

$$a_2 = -4.0773e-07 \mu\text{Hz}^{-1}$$

profile59

$$\chi^2_\nu(\text{dof} = 75) = 0.18731$$

Age after ZAMS: 14.410 Gyr

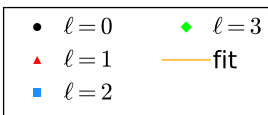
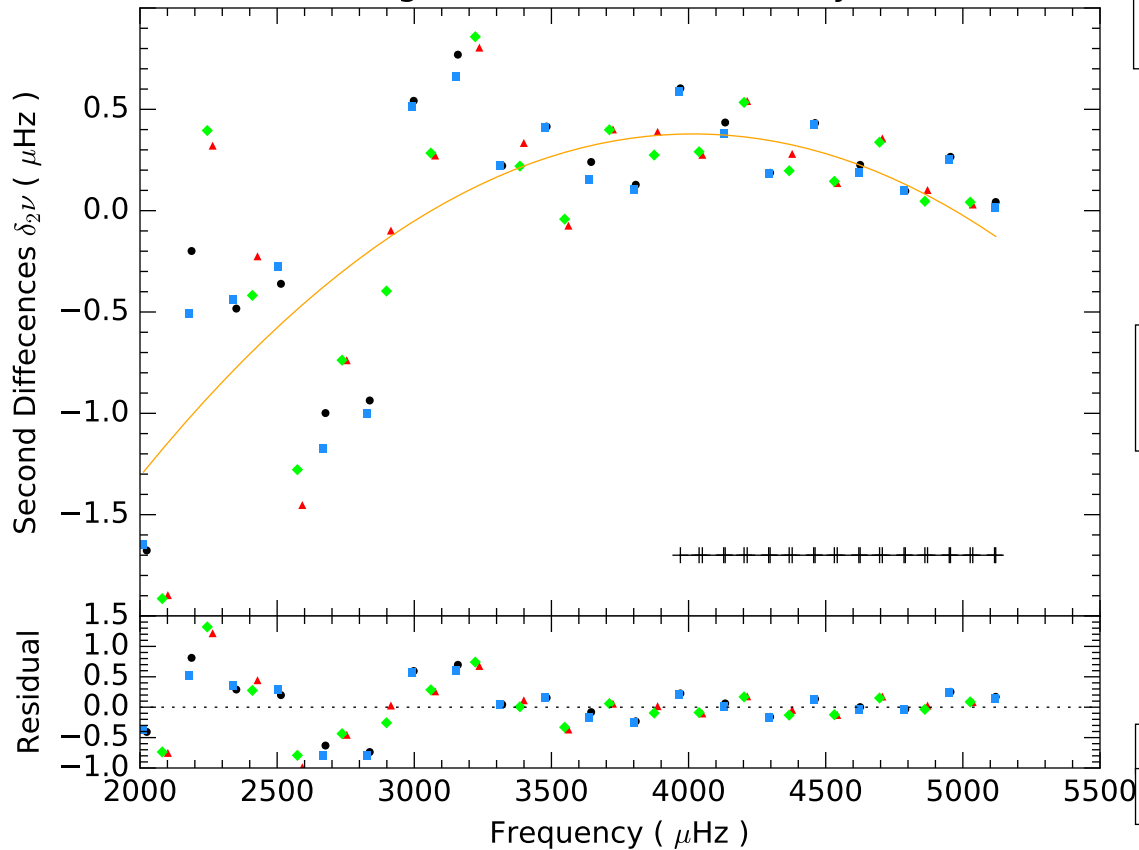


$$\begin{aligned}
 a_0 &= -6.3639 \mu\text{Hz} \\
 a_1 &= 0.0033307 \\
 a_2 &= -4.1132e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile60

$$\chi^2_\nu(\text{dof} = 75) = 0.18797$$

Age after ZAMS: 14.710 Gyr

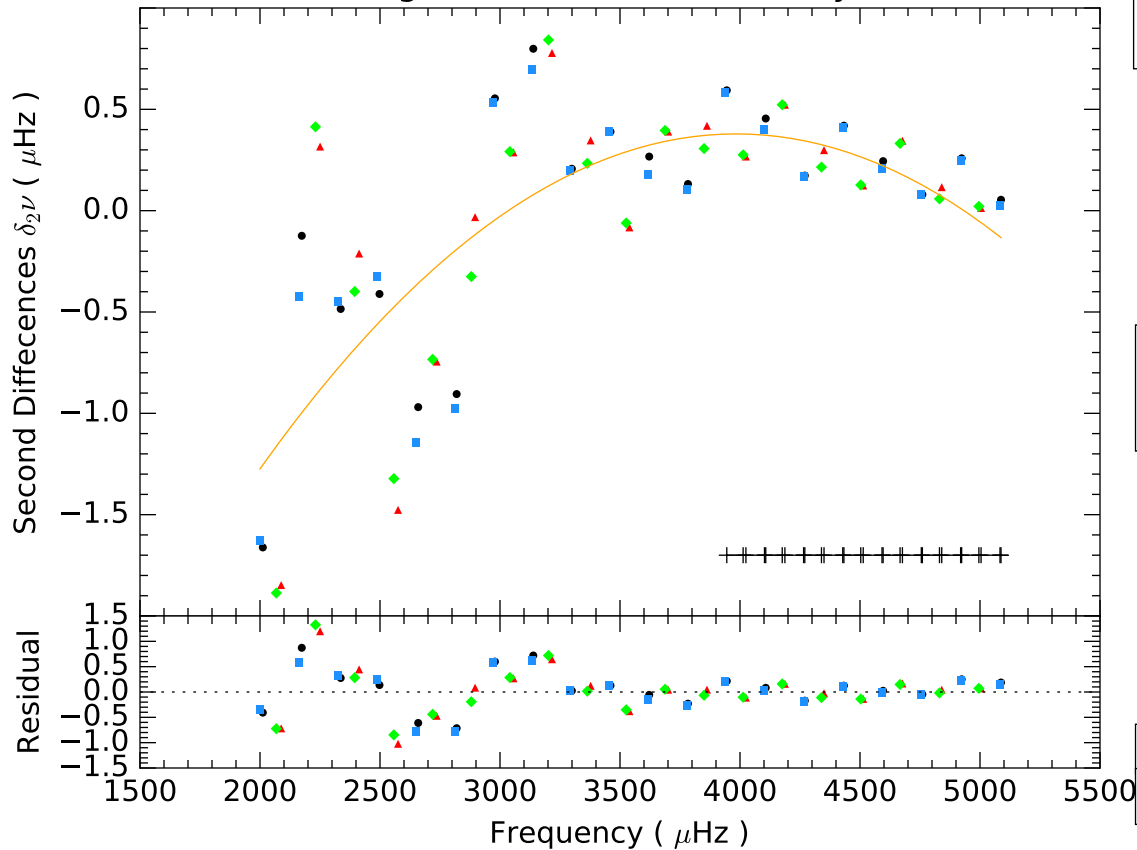


$$\begin{aligned}
 a_0 &= -6.3245 \mu\text{Hz} \\
 a_1 &= 0.0033378 \\
 a_2 &= -4.155e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile61

$$\chi^2_\nu (\text{dof} = 75) = 0.18866$$

Age after ZAMS: 15.010 Gyr



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

$$a_0 = -6.2859 \mu\text{Hz}$$

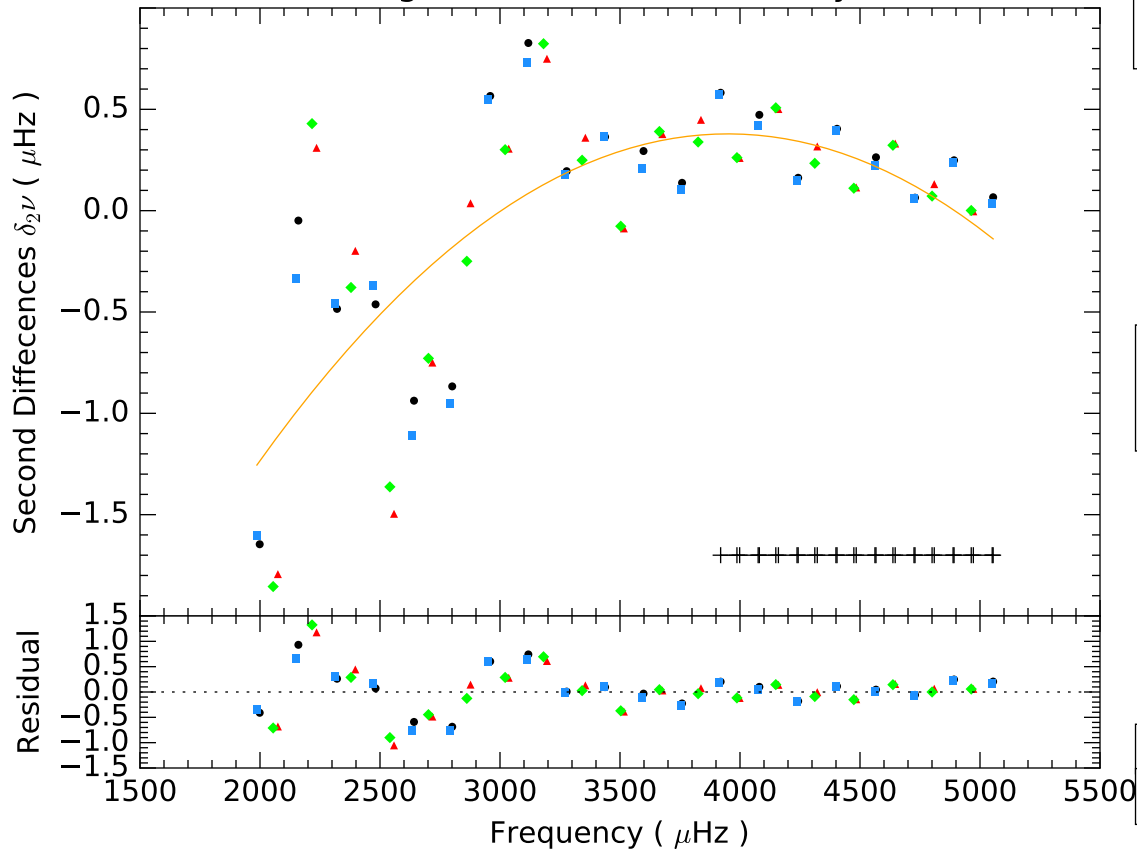
$$a_1 = 0.0033458$$

$$a_2 = -4.1993e-07 \mu\text{Hz}^{-1}$$

profile62

$$\chi^2_\nu(\text{dof} = 75) = 0.18944$$

Age after ZAMS: 15.310 Gyr



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

$$a_0 = -6.2393 \mu\text{Hz}$$

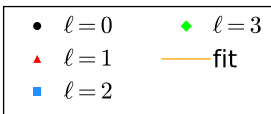
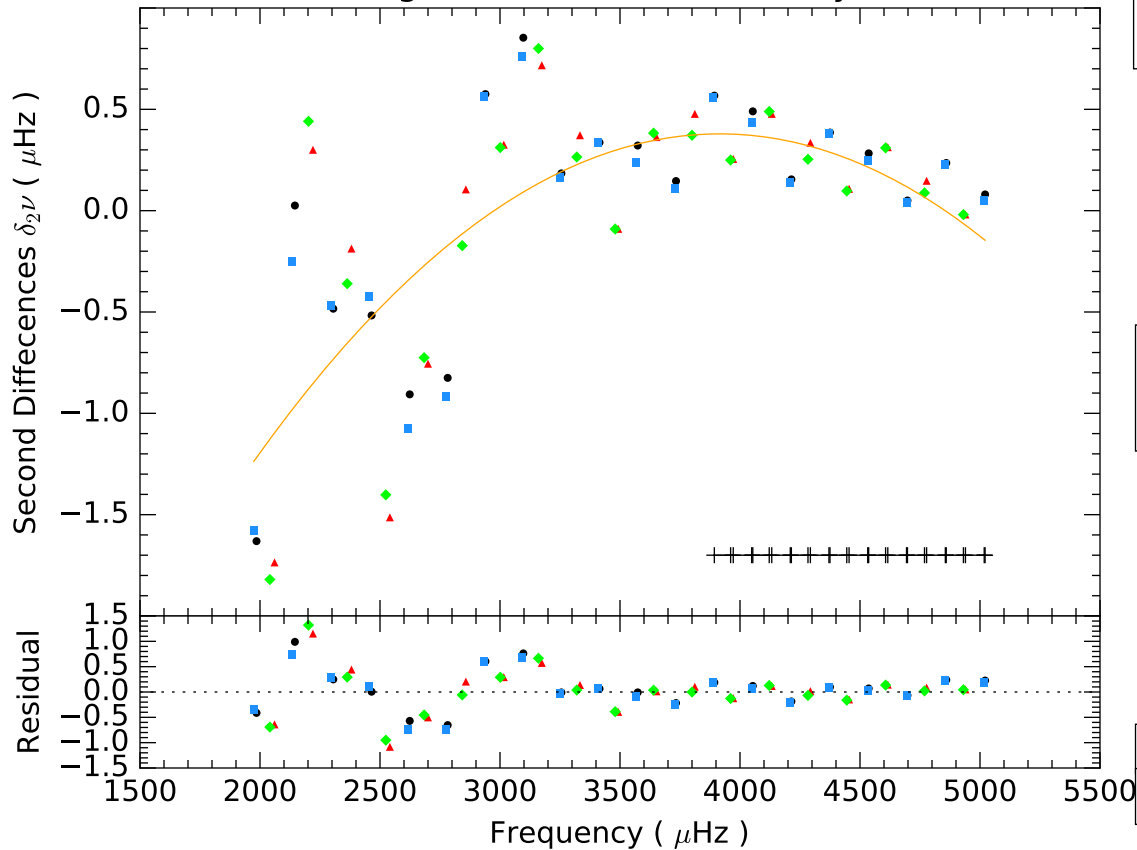
$$a_1 = 0.0033513$$

$$a_2 = -4.2426e-07 \mu\text{Hz}$$

profile63

$$\chi^2_\nu(\text{dof} = 75) = 0.19022$$

Age after ZAMS: 15.610 Gyr

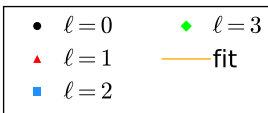
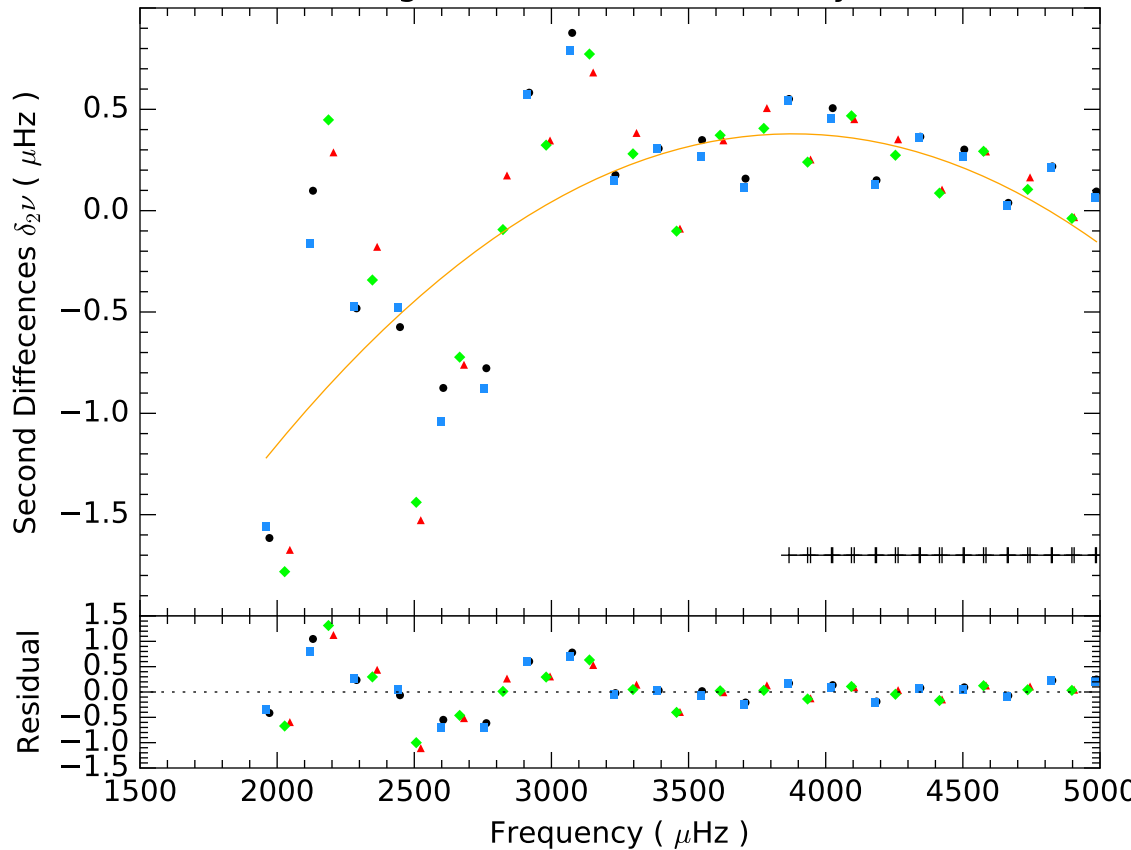


$$\begin{aligned}
 a_0 &= -6.196 \mu\text{Hz} \\
 a_1 &= 0.0033588 \\
 a_2 &= -4.2896e-07 \mu\text{Hz}
 \end{aligned}$$

profile64

$$\chi^2_\nu(\text{dof} = 75) = 0.19111$$

Age after ZAMS: 15.910 Gyr

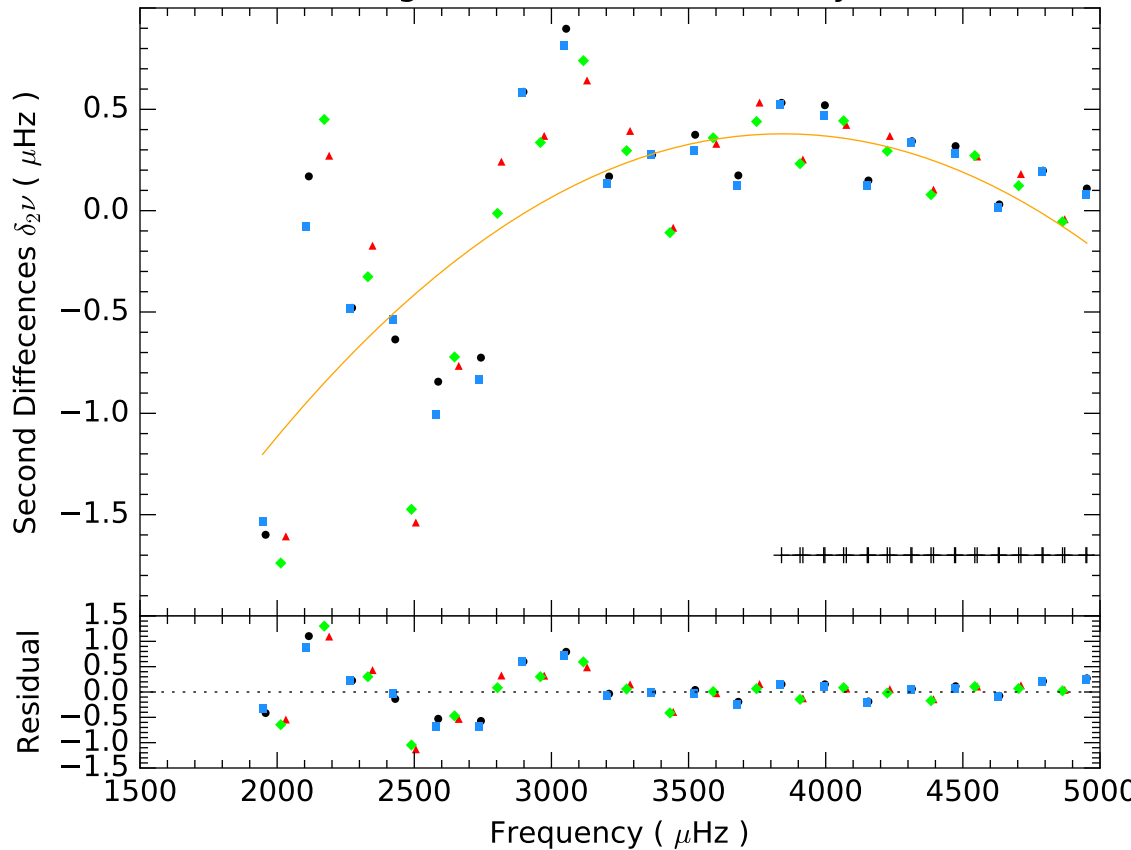


$$\begin{aligned}
 a_0 &= -6.1527 \mu \text{ Hz} \\
 a_1 &= 0.0033671 \\
 a_2 &= -4.3392e-07 \mu\text{Hz}
 \end{aligned}$$

profile65

$$\chi^2_\nu(\text{dof} = 75) = 0.192$$

Age after ZAMS: 16.210 Gyr



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

$$a_0 = -6.1137 \mu \text{ Hz}$$

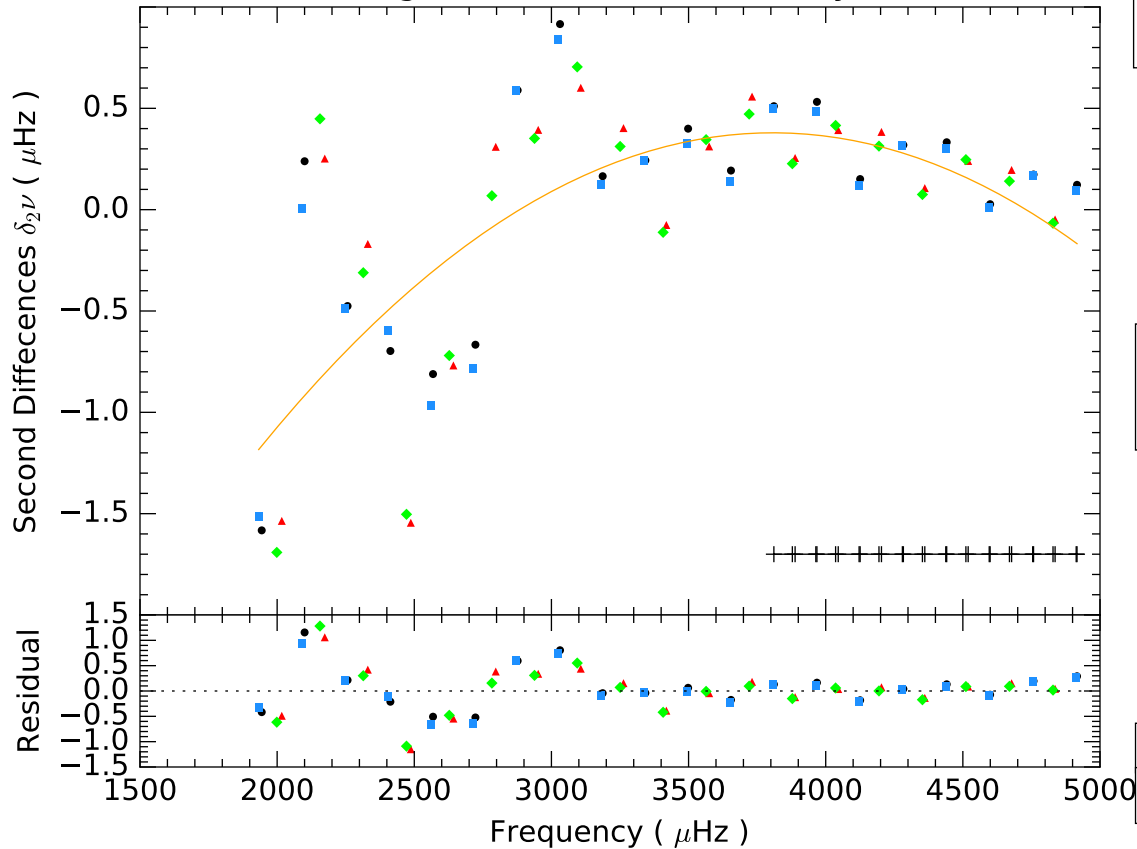
$$a_1 = 0.003378$$

$$a_2 = -4.3936e-07 \mu\text{Hz}^{-1}$$

profile66

$$\chi^2_\nu(\text{dof} = 75) = 0.19294$$

Age after ZAMS: 16.510 Gyr



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

$$a_0 = -6.0684 \mu\text{Hz}$$

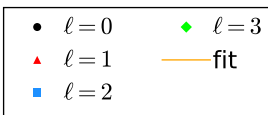
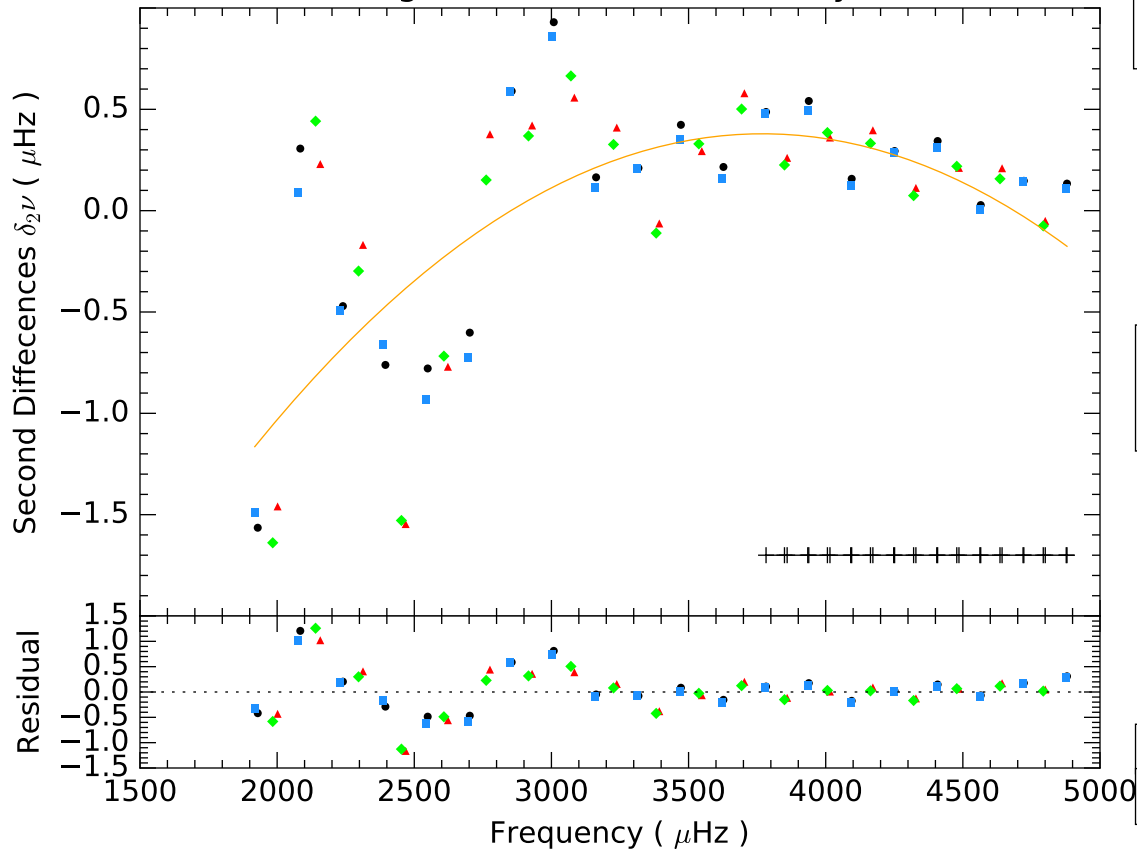
$$a_1 = 0.003387$$

$$a_2 = -4.4481e-07 \mu\text{Hz}$$

profile67

$$\chi^2_\nu (\text{dof} = 75) = 0.1938$$

Age after ZAMS: 16.810 Gyr



$$a_0 = -6.0228 \mu \text{ Hz}$$

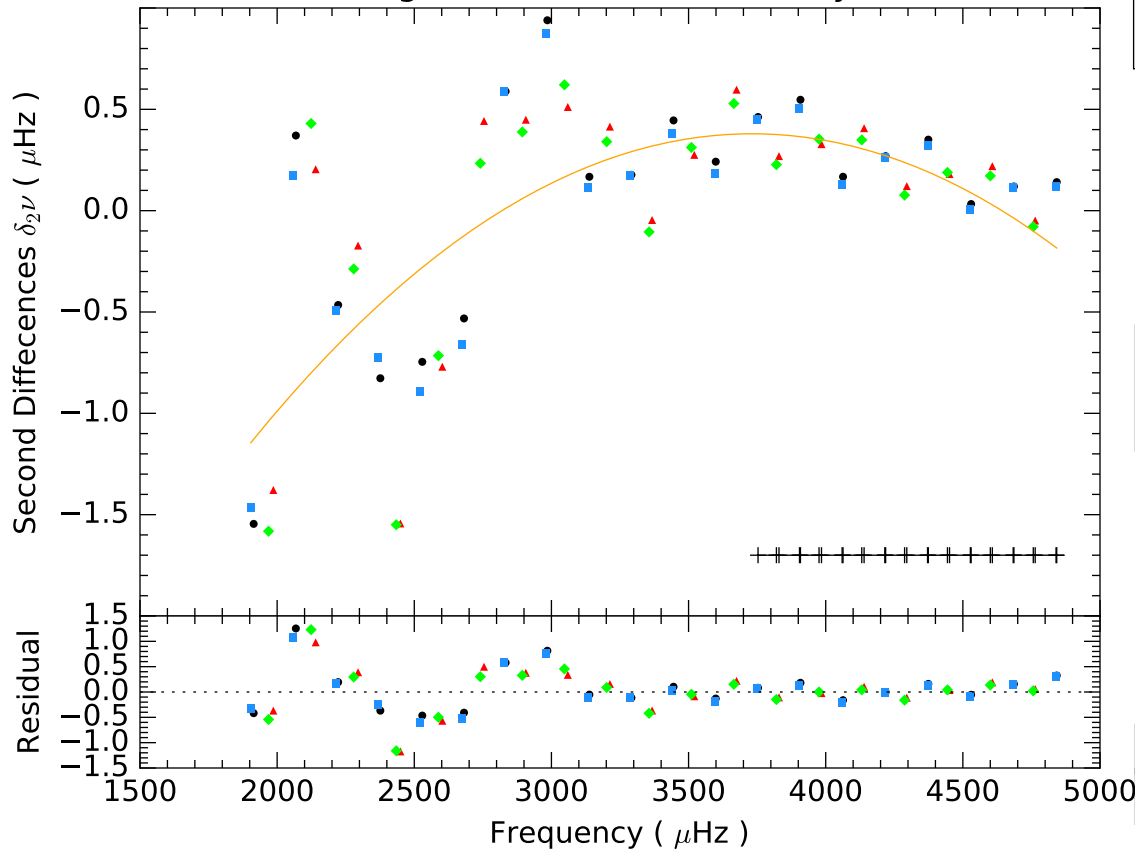
$$a_1 = 0.0033968$$

$$a_2 = -4.5055e-07 \mu \text{ Hz}$$

profile68

$$\chi^2_\nu (\text{dof} = 75) = 0.19462$$

Age after ZAMS: 17.110 Gyr



$$a_0 = -5.9773 \mu\text{Hz}$$

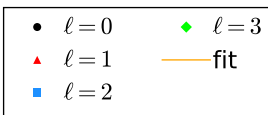
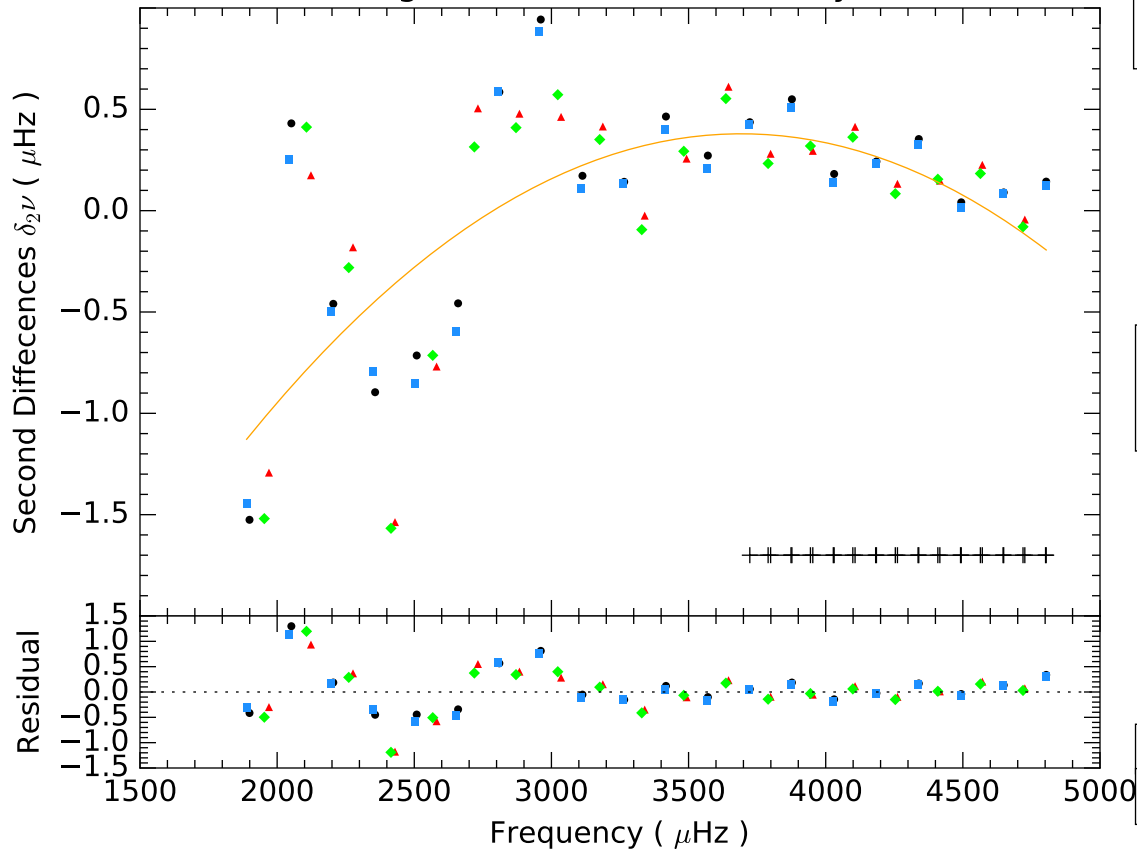
$$a_1 = 0.0034075$$

$$a_2 = -4.5664e-07 \mu\text{Hz}$$

profile69

$$\chi^2_\nu(\text{dof} = 75) = 0.19539$$

Age after ZAMS: 17.410 Gyr

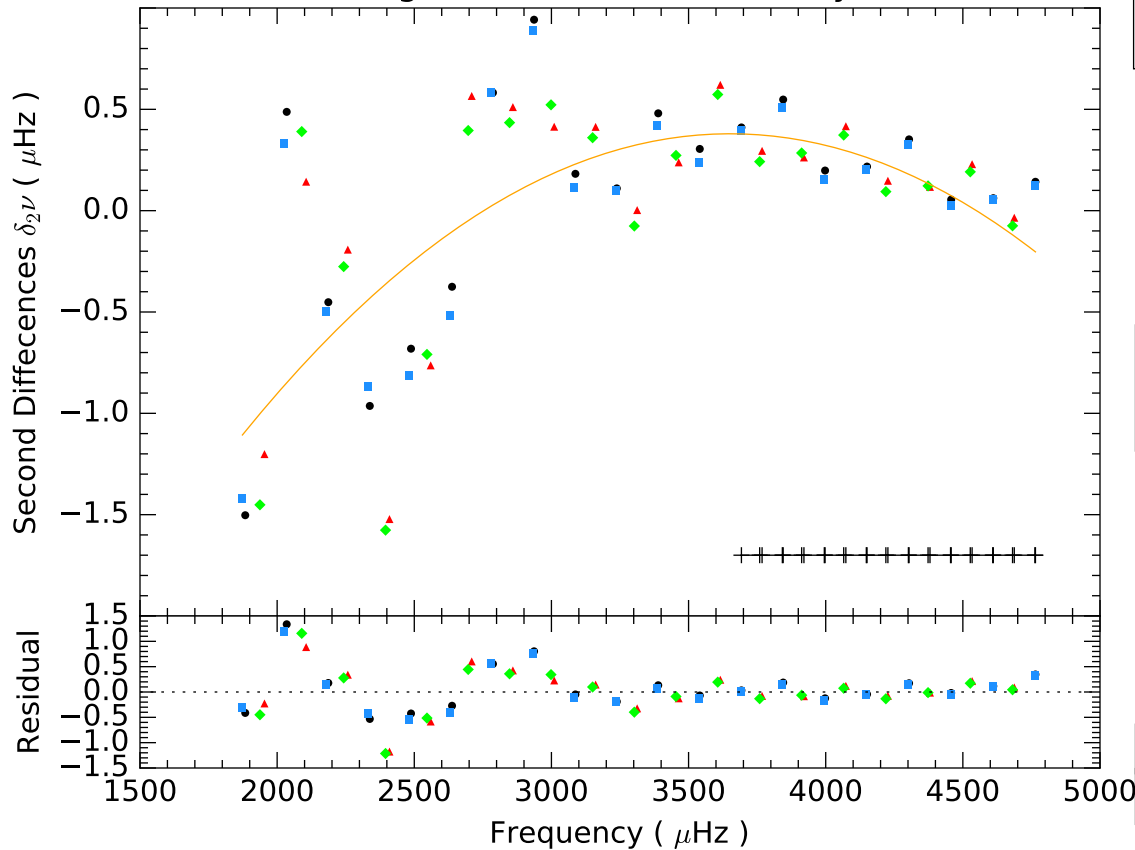


$$\begin{aligned}
 a_0 &= -5.9397 \mu \text{ Hz} \\
 a_1 &= 0.0034232 \\
 a_2 &= -4.6361e-07 \mu\text{Hz}
 \end{aligned}$$

profile70

$$\chi^2_\nu(\text{dof} = 75) = 0.19615$$

Age after ZAMS: 17.710 Gyr



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

$$a_0 = -5.8889 \mu\text{Hz}$$

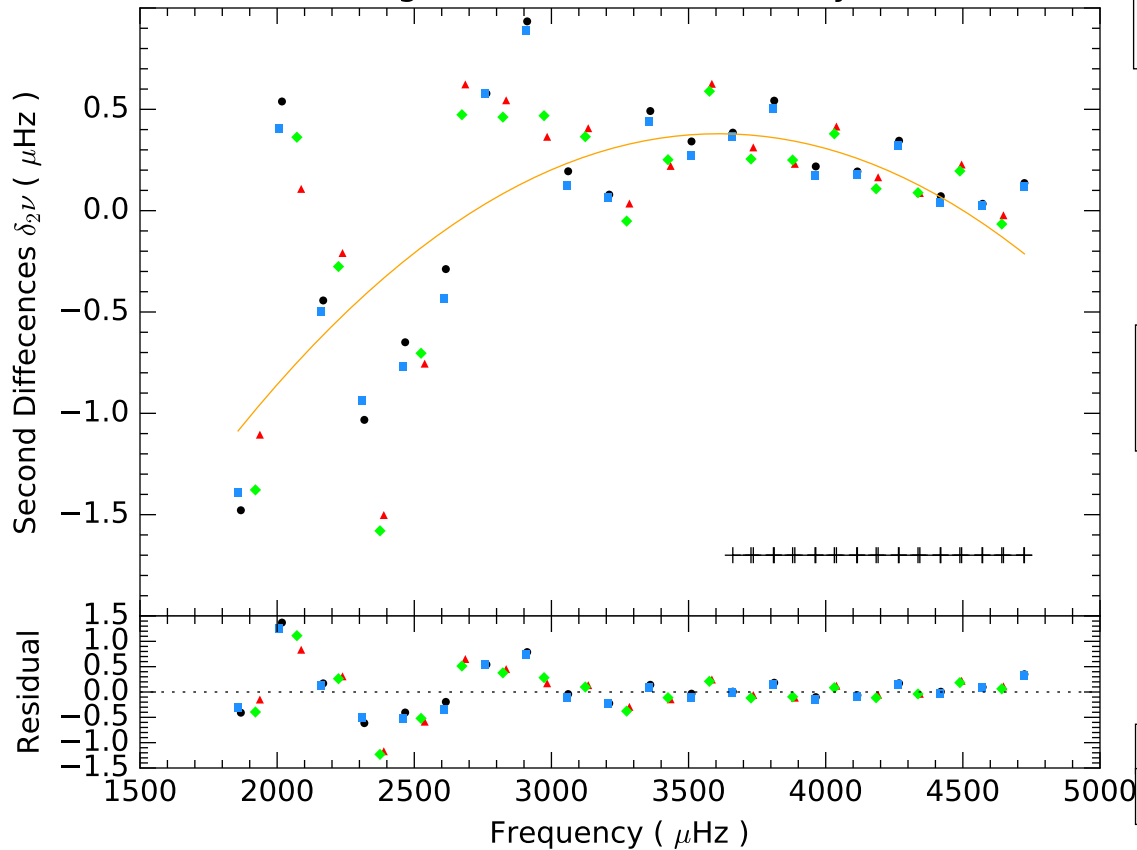
$$a_1 = 0.0034334$$

$$a_2 = -4.7015e-07 \mu\text{Hz}$$

profile71

$$\chi^2_\nu(\text{dof} = 75) = 0.19666$$

Age after ZAMS: 18.010 Gyr

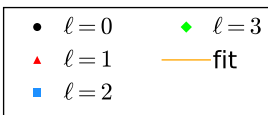
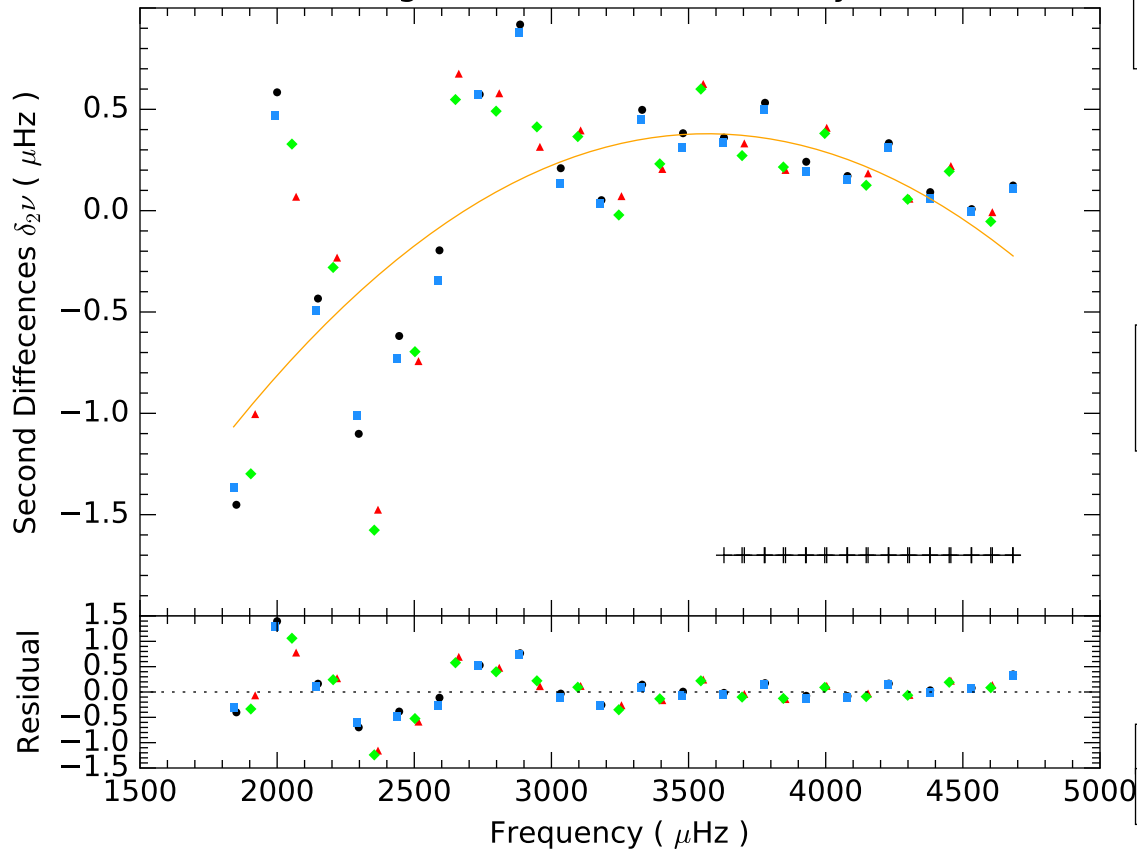


$$\begin{aligned}
 a_0 &= -5.8421 \mu \text{ Hz} \\
 a_1 &= 0.0034467 \\
 a_2 &= -4.7736e-07 \mu \text{ Hz}
 \end{aligned}$$

profile72

$$\chi^2_\nu (\text{dof} = 75) = 0.19706$$

Age after ZAMS: 18.310 Gyr

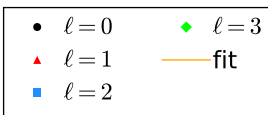
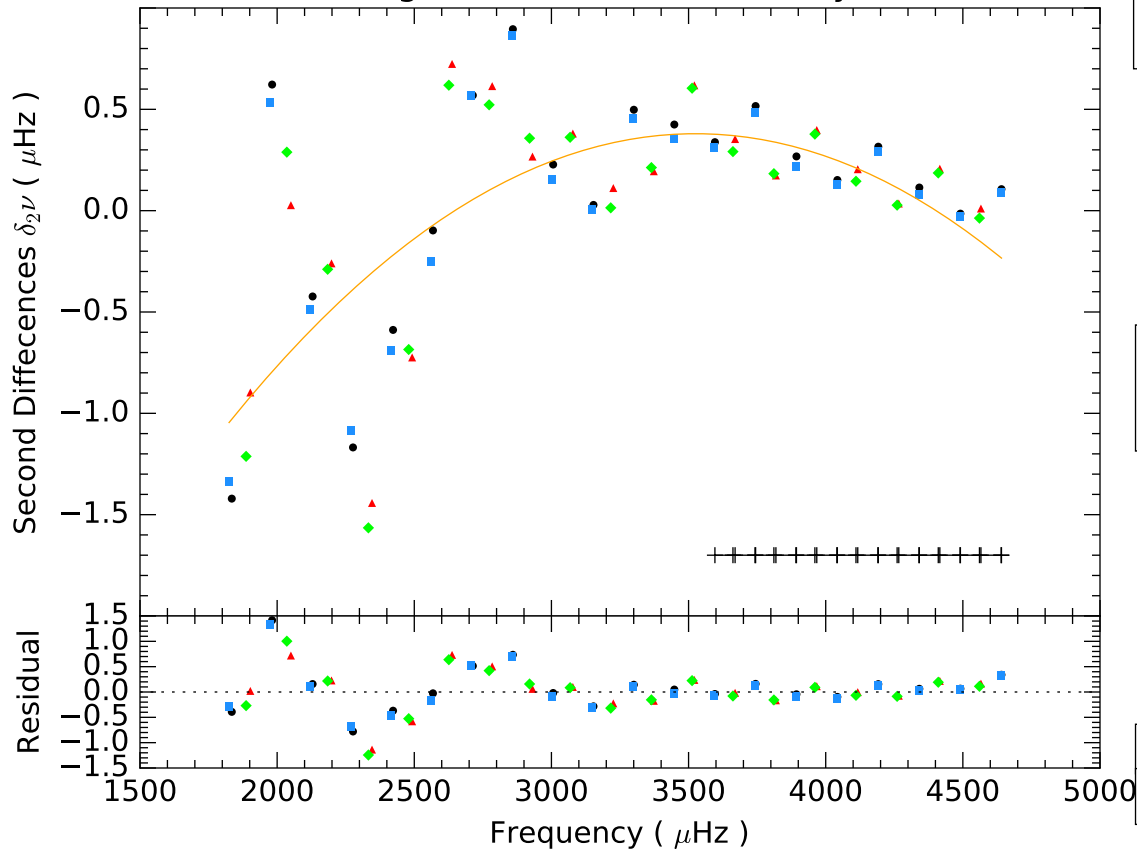


$$\begin{aligned}
 a_0 &= -5.7956 \mu \text{ Hz} \\
 a_1 &= 0.0034614 \\
 a_2 &= -4.8505e-07 \mu\text{Hz}
 \end{aligned}$$

profile73

$$\chi^2_\nu(\text{dof} = 75) = 0.19724$$

Age after ZAMS: 18.610 Gyr



Fit parameters:

$$a_0 = -5.7461 \mu \text{ Hz}$$

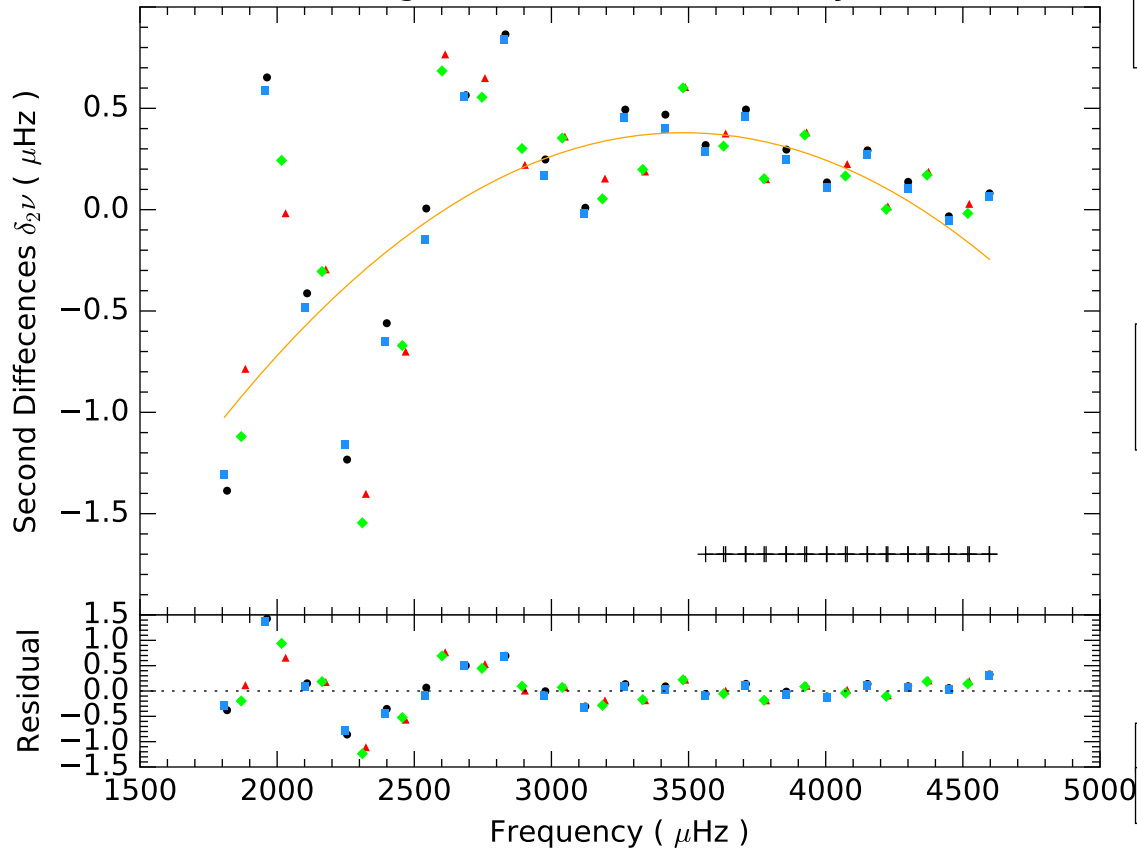
$$a_1 = 0.0034757$$

$$a_2 = -4.93e-07 \mu \text{ Hz}^{-1}$$

profile74

$\chi^2_{\nu}(\text{dof} = 75) = 0.19713$

Age after ZAMS: 18.910 Gyr



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

$$a_0 = -5.6971 \mu \text{ Hz}$$

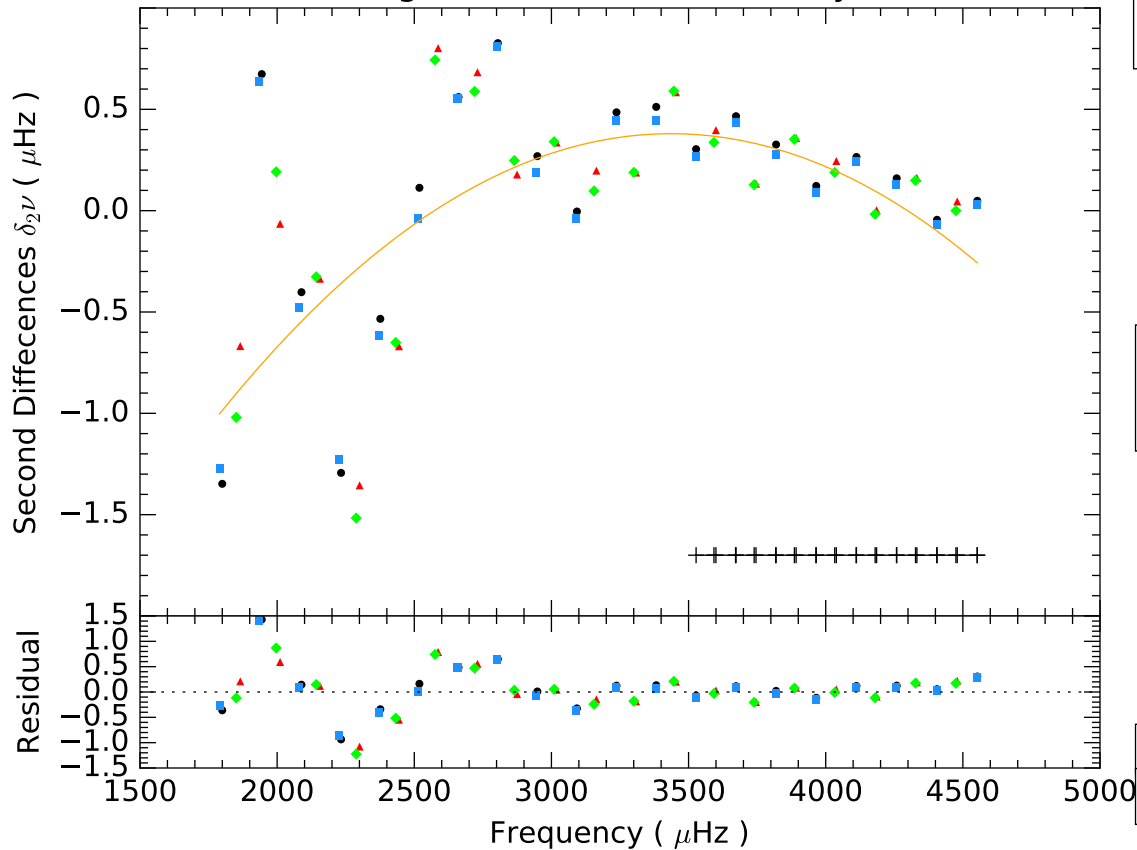
$$a_1 = 0.0034916$$

$$a_2 = -5.0155e-07 \mu\text{Hz}^{-1}$$

profile75

$$\chi^2_\nu(\text{dof} = 75) = 0.19671$$

Age after ZAMS: 19.210 Gyr



$$a_0 = -5.6457 \mu\text{Hz}$$

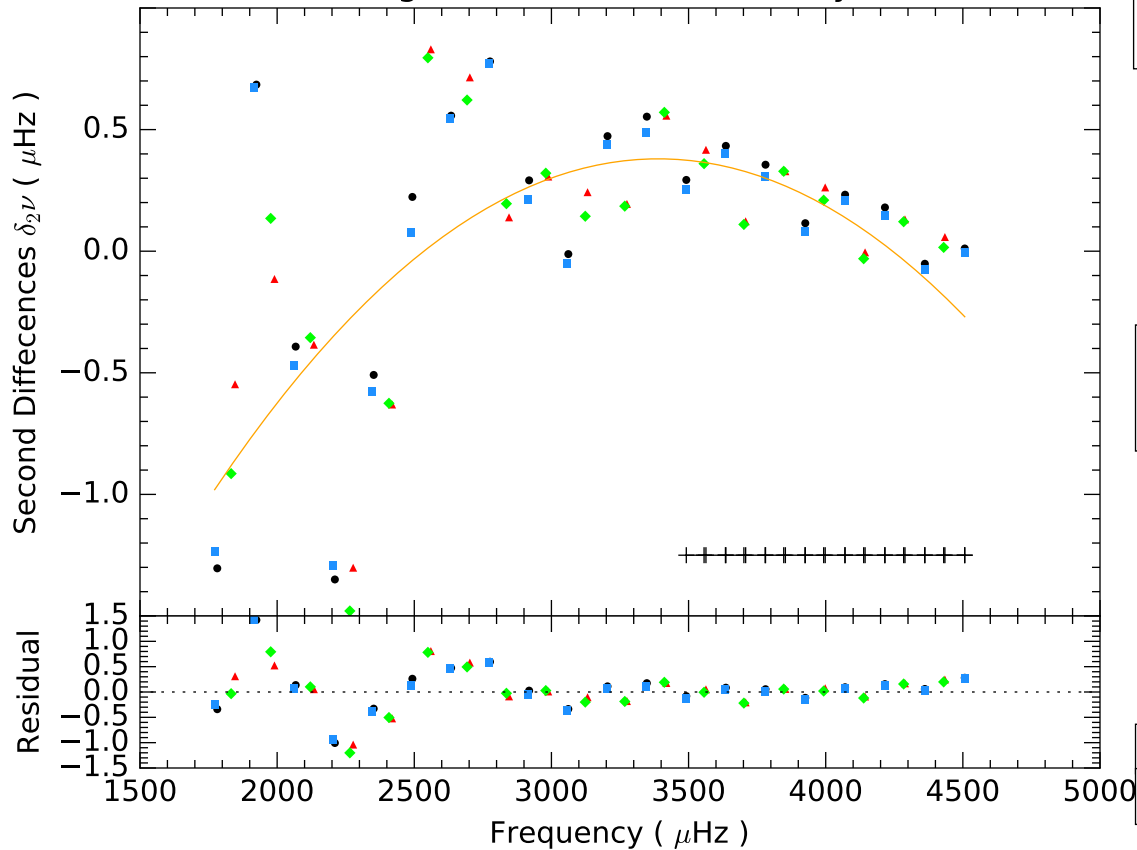
$$a_1 = 0.0035076$$

$$a_2 = -5.1046e-07 \mu\text{Hz}$$

profile76

$$\chi^2_\nu(\text{dof} = 75) = 0.19592$$

Age after ZAMS: 19.510 Gyr



$$a_0 = -5.5951 \mu\text{Hz}$$

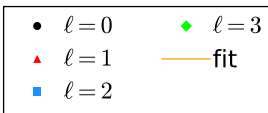
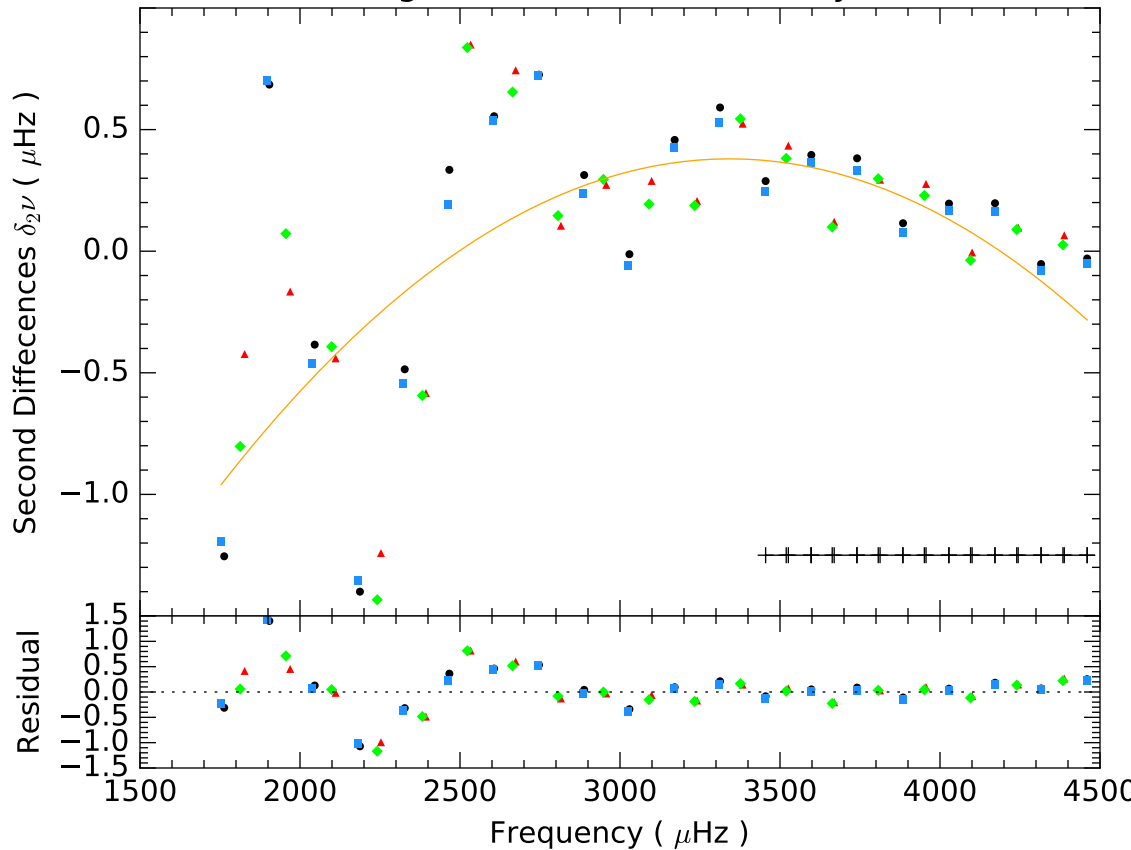
$$a_1 = 0.0035255$$

$$a_2 = -5.2006e-07 \mu\text{Hz}^{-1}$$

profile77

$$\chi^2_\nu(\text{dof} = 75) = 0.19481$$

Age after ZAMS: 19.810 Gyr

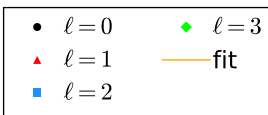
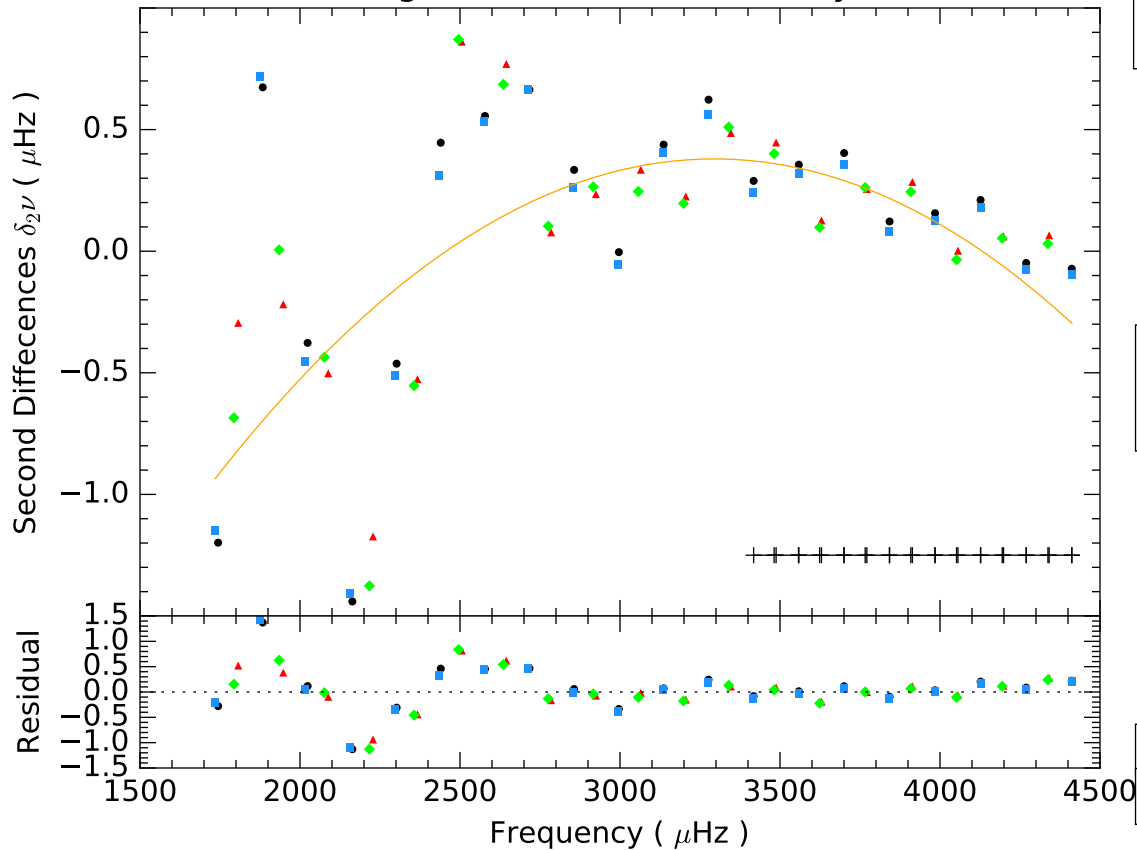


$$\begin{aligned}
 a_0 &= -5.5468 \mu\text{Hz} \\
 a_1 &= 0.0035461 \\
 a_2 &= -5.3045e-07 \mu\text{Hz}
 \end{aligned}$$

profile78

$$\chi^2_\nu(\text{dof} = 75) = 0.1934$$

Age after ZAMS: 20.110 Gyr



$$a_0 = -5.488 \mu\text{Hz}$$

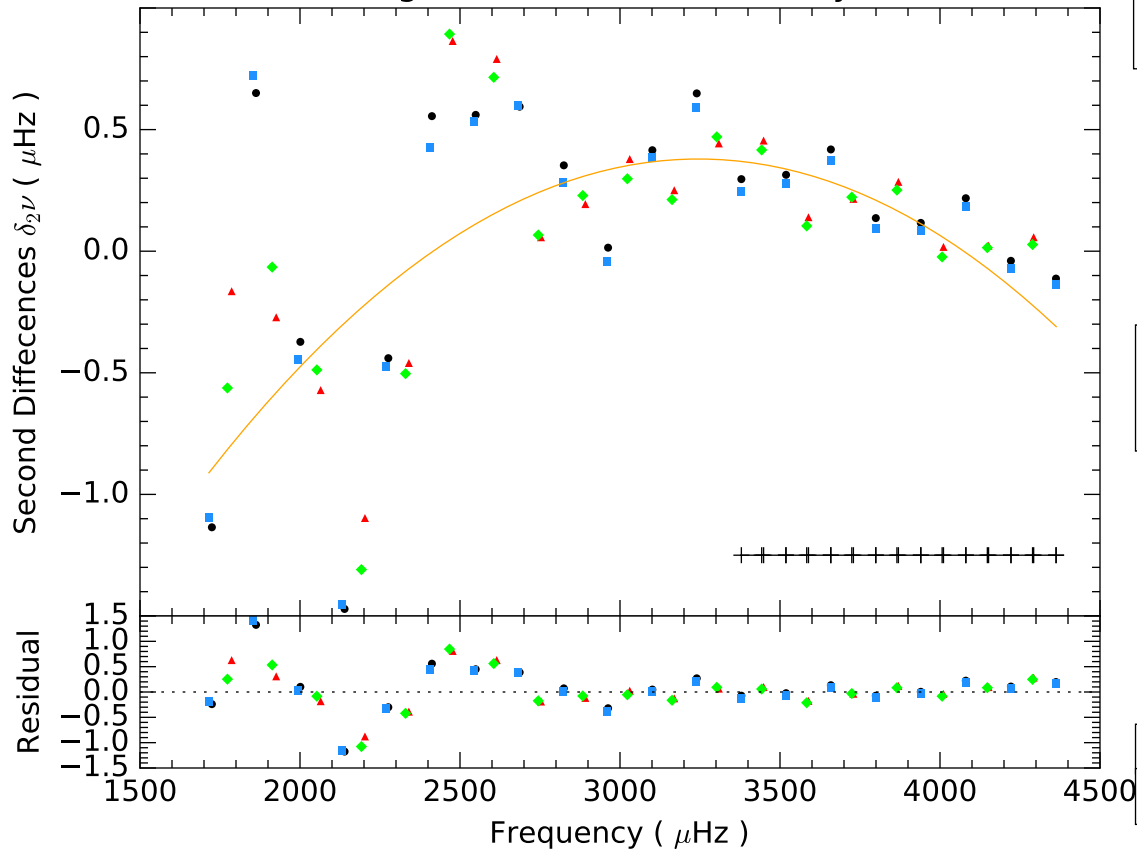
$$a_1 = 0.0035622$$

$$a_2 = -5.4067e-07 \mu\text{Hz}^{-1}$$

profile79

$$\chi^2_\nu(\text{dof} = 75) = 0.19154$$

Age after ZAMS: 20.410 Gyr



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

$$a_0 = -5.4274 \mu\text{Hz}$$

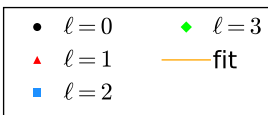
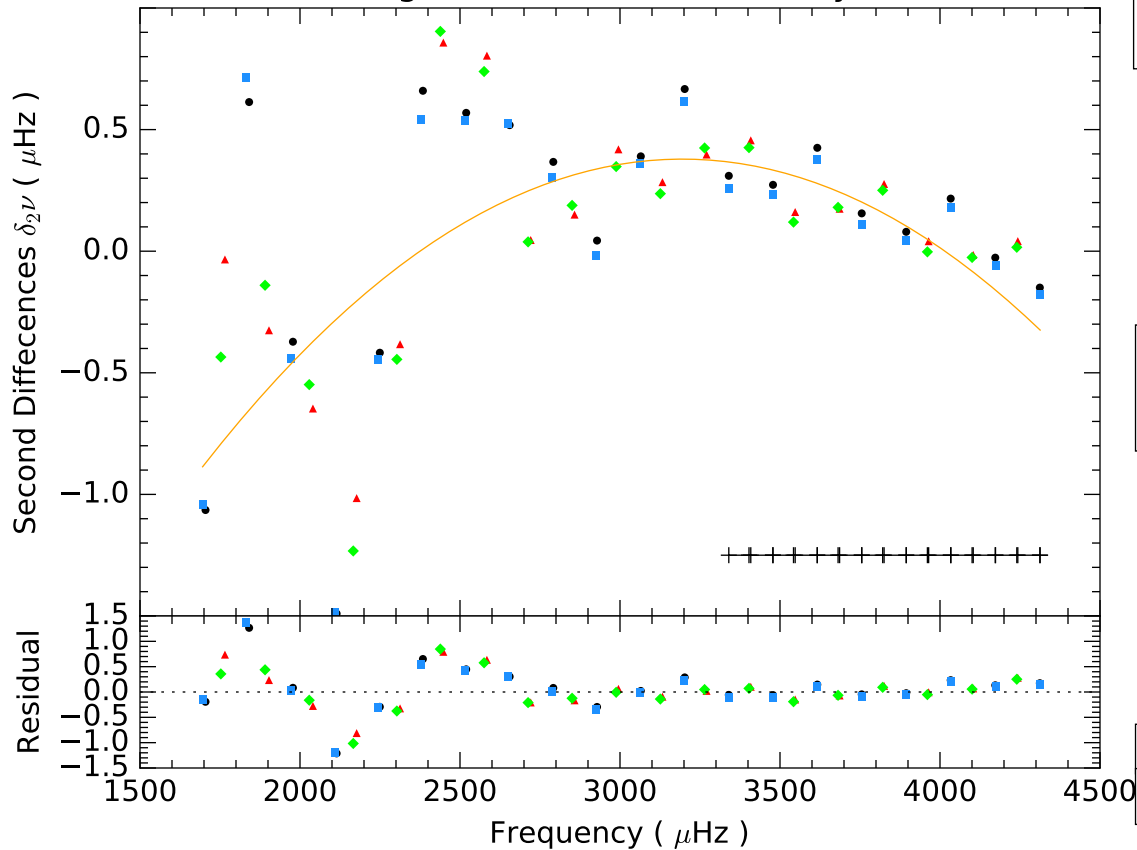
$$a_1 = 0.0035786$$

$$a_2 = -5.5138e-07 \mu\text{Hz}^{-1}$$

profile80

$$\chi^2_\nu(\text{dof} = 75) = 0.18935$$

Age after ZAMS: 20.710 Gyr



$$a_0 = -5.3651 \mu \text{ Hz}$$

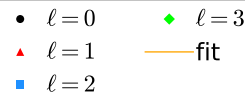
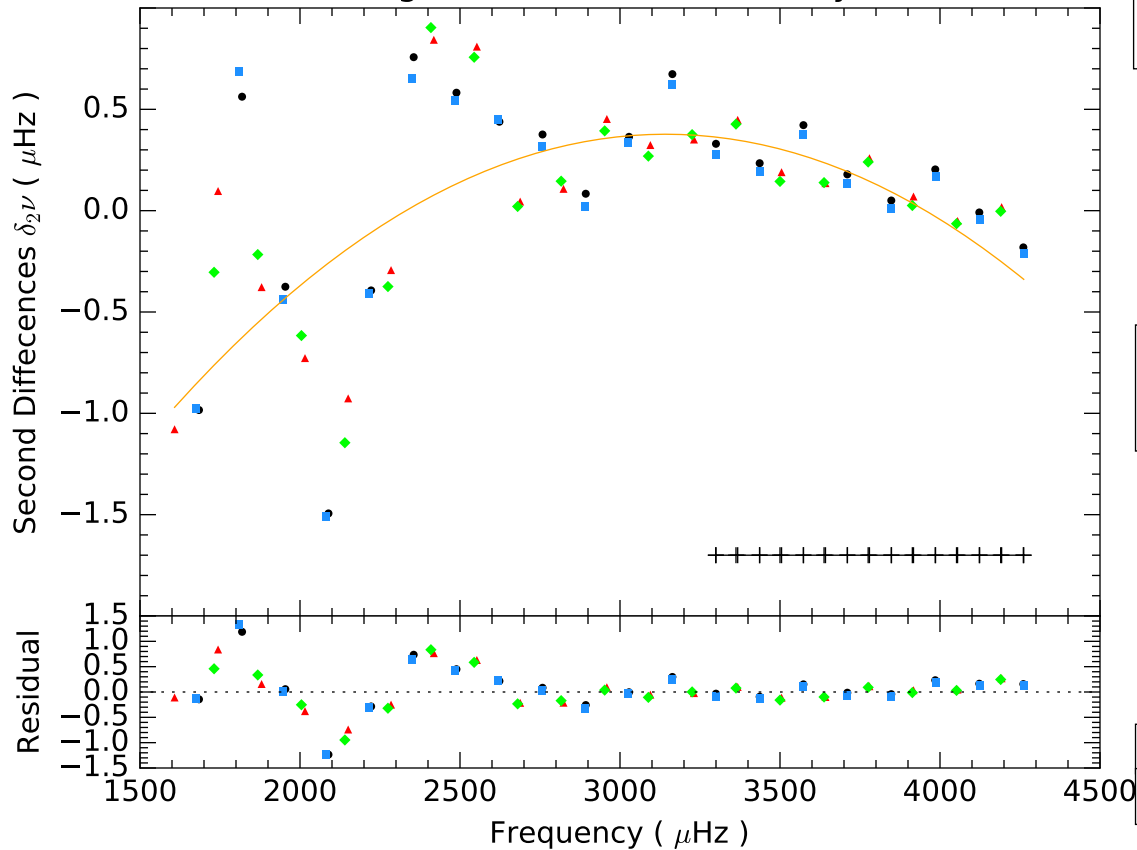
$$a_1 = 0.0035953$$

$$a_2 = -5.6262e-07 \mu \text{ Hz}^{-1}$$

profile81

$$\chi^2_\nu (\text{dof} = 75) = 0.18683$$

Age after ZAMS: 21.010 Gyr

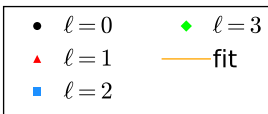
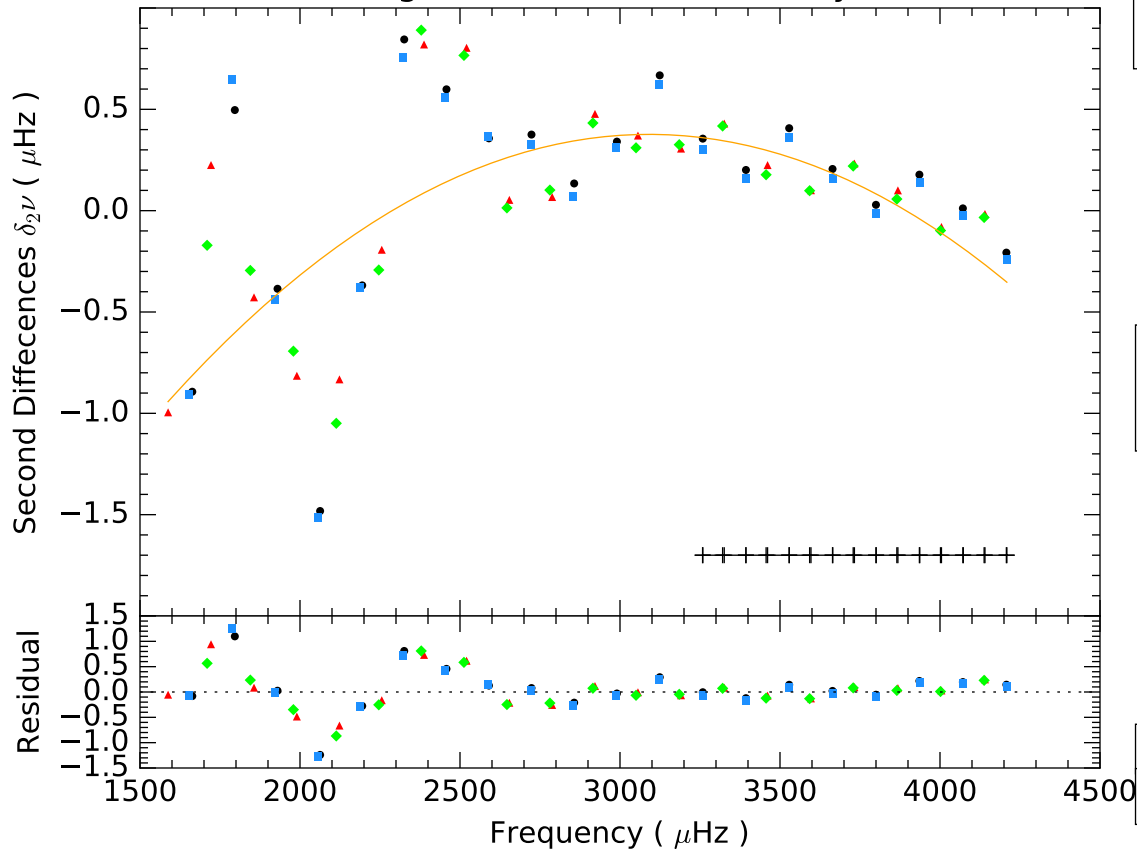


$$\begin{aligned}
 a_0 &= -5.273 \mu\text{Hz} \\
 a_1 &= 0.0035955 \\
 a_2 &= -5.72e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile82

$$\chi^2_\nu(\text{dof} = 76) = 0.18143$$

Age after ZAMS: 21.310 Gyr

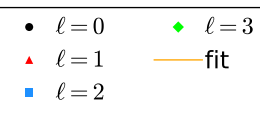
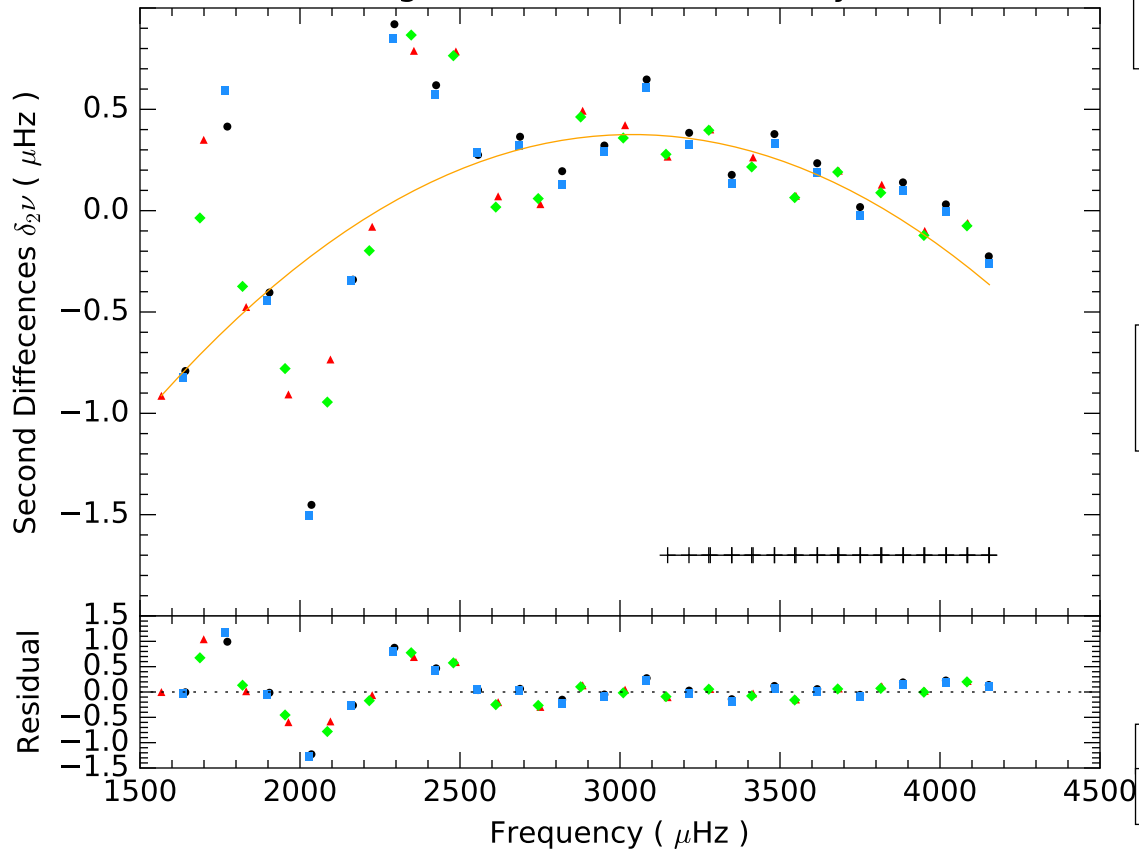


$$\begin{aligned}
 a_0 &= -5.1994 \mu \text{ Hz} \\
 a_1 &= 0.0036079 \\
 a_2 &= -5.8362e-07 \mu \text{ Hz}
 \end{aligned}$$

profile83

$$\chi^2_\nu(\text{dof} = 76) = 0.17814$$

Age after ZAMS: 21.610 Gyr



$$a_0 = -5.1173 \mu \text{ Hz}$$

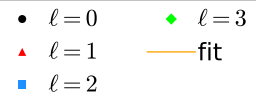
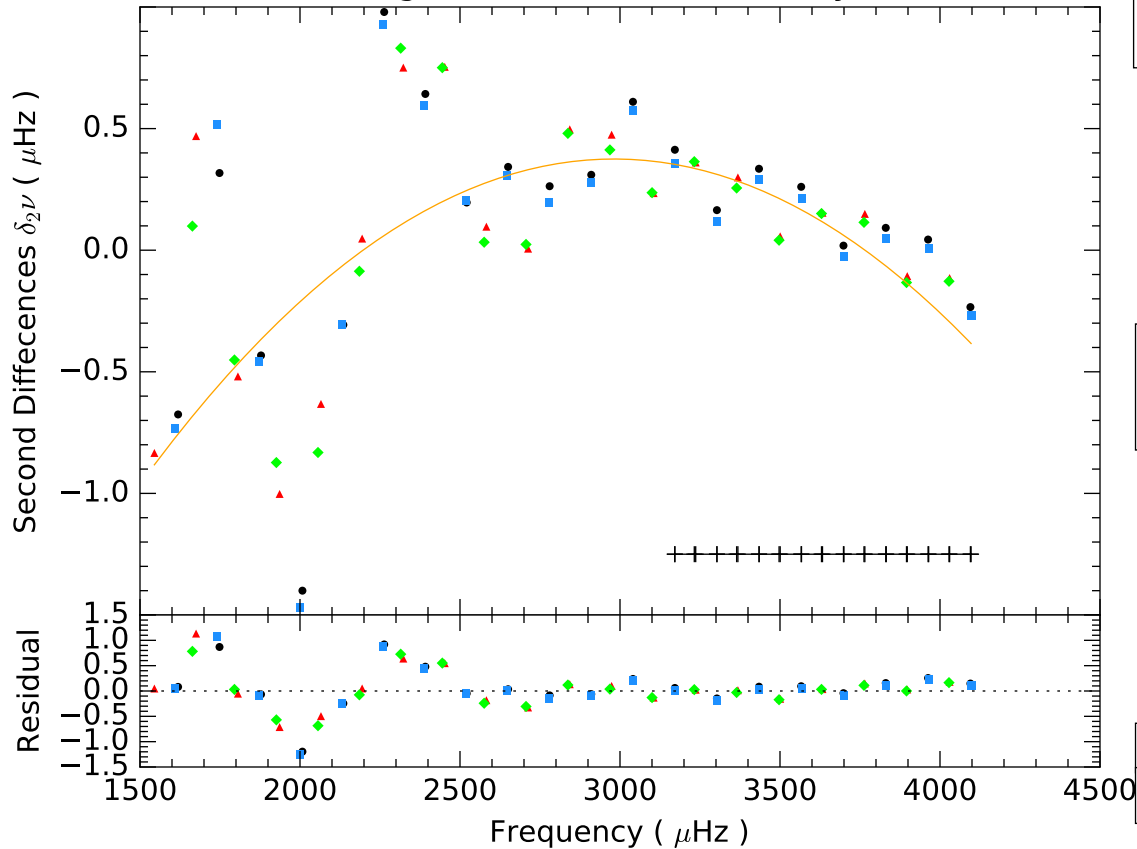
$$a_1 = 0.0036157$$

$$a_2 = -5.9499e-07 \mu \text{ Hz}$$

profile84

$$\chi^2_\nu (\text{dof} = 76) = 0.17471$$

Age after ZAMS: 21.910 Gyr

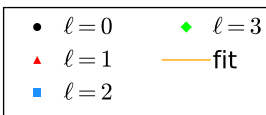
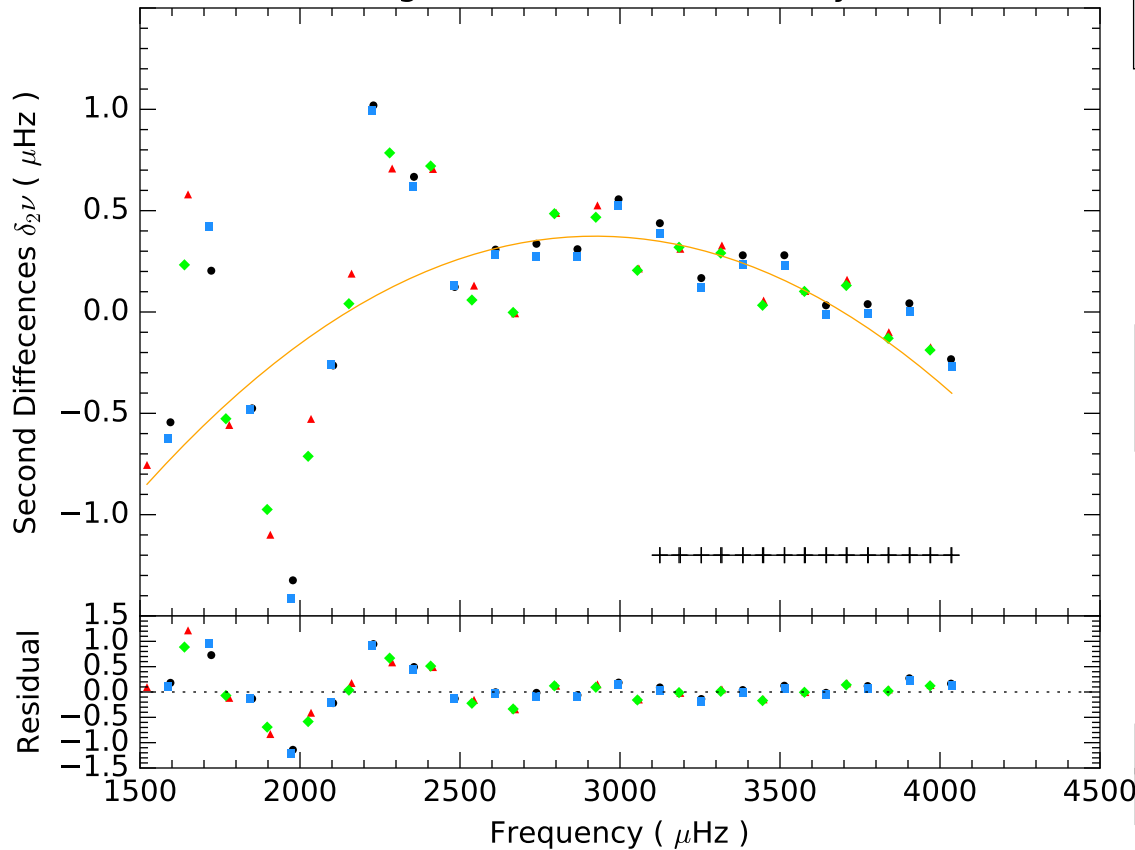


$$\begin{aligned}
 a_0 &= -5.0414 \mu\text{Hz} \\
 a_1 &= 0.0036334 \\
 a_2 &= -6.0936e-07 \mu\text{Hz}
 \end{aligned}$$

profile85

$$\chi^2_\nu(\text{dof} = 76) = 0.17161$$

Age after ZAMS: 22.210 Gyr



Fit parameters:

$$a_0 = -4.9558 \mu \text{ Hz}$$

$$a_1 = 0.0036476$$

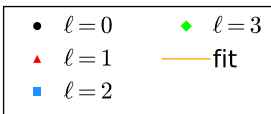
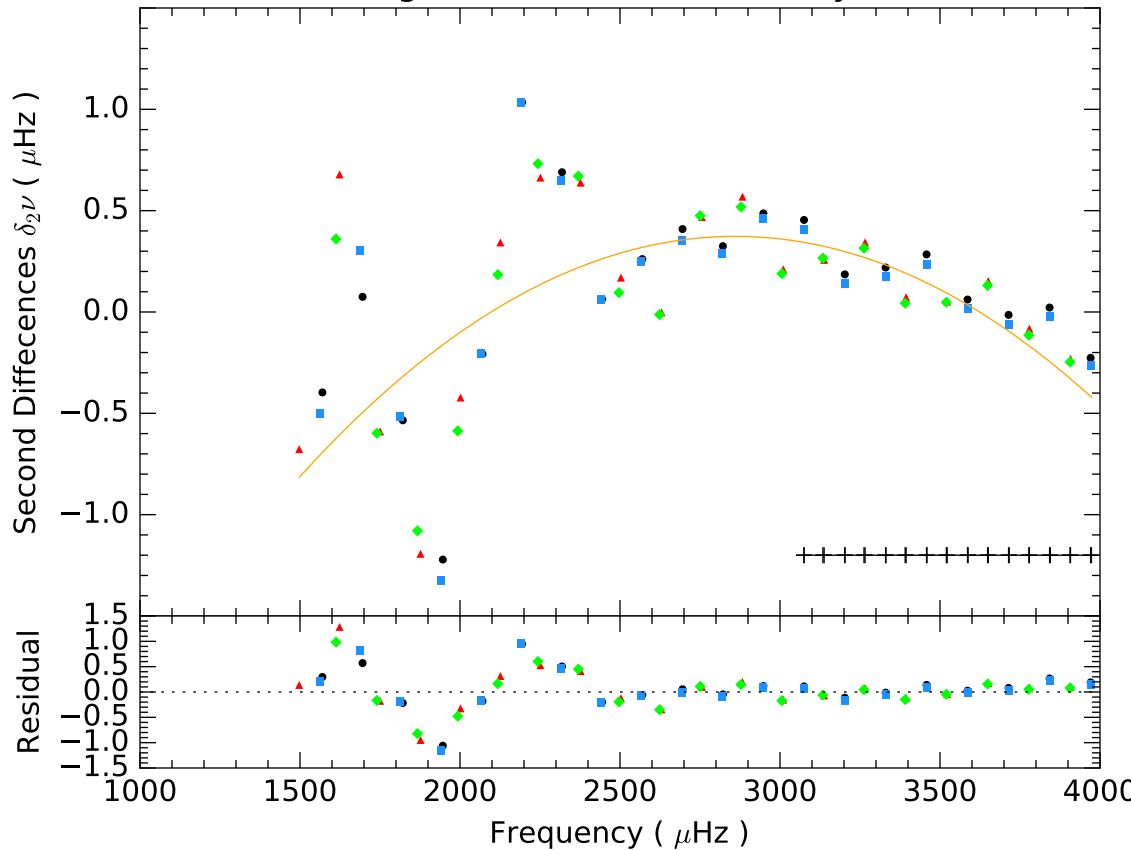
$$a_2 = -6.2407e-07 \mu \text{ Hz}^{-1}$$

profile86

Chi-squared statistic:

$$\chi^2_\nu (\text{dof} = 76) = 0.16889$$

Age after ZAMS: 22.510 Gyr

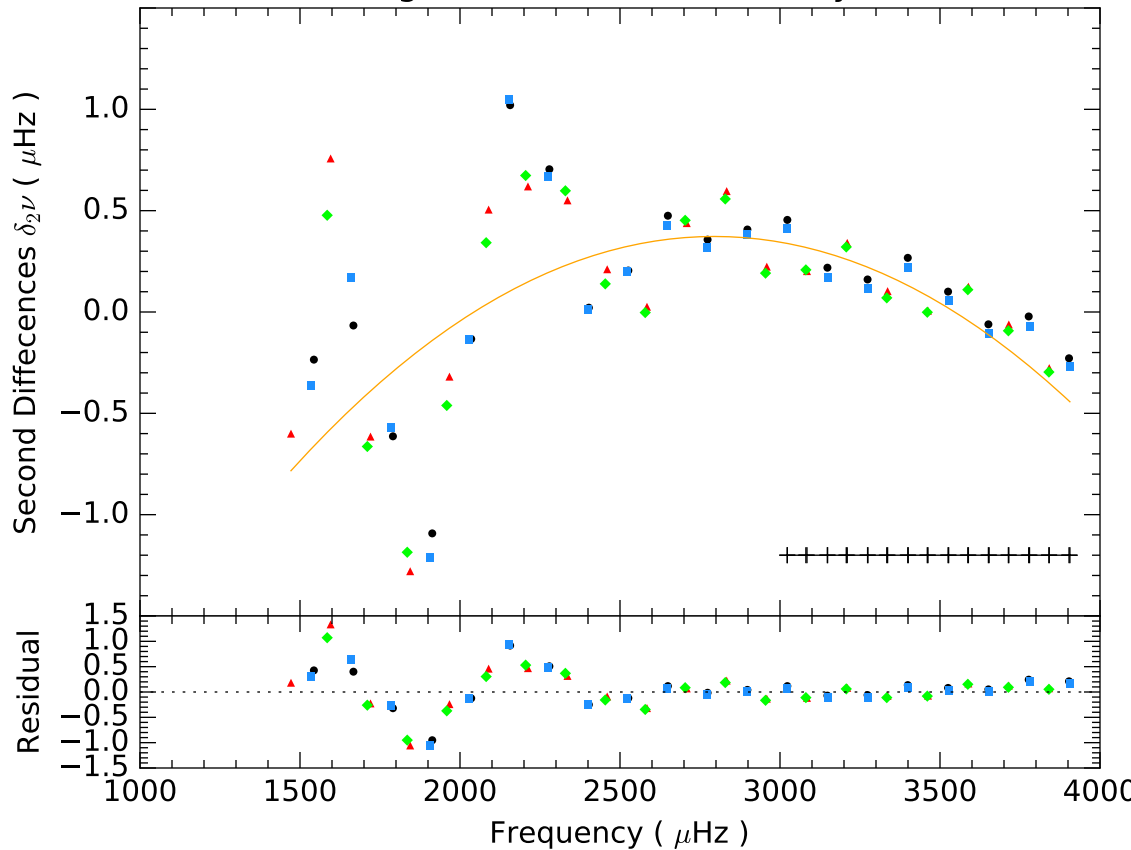


$$\begin{aligned}
 a_0 &= -4.867 \mu\text{Hz} \\
 a_1 &= 0.0036643 \\
 a_2 &= -6.4055e-07 \mu\text{Hz}
 \end{aligned}$$

profile87

$$\chi^2_\nu(\text{dof} = 76) = 0.167$$

Age after ZAMS: 22.810 Gyr



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

$$a_0 = -4.7859 \mu \text{ Hz}$$

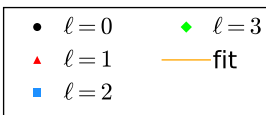
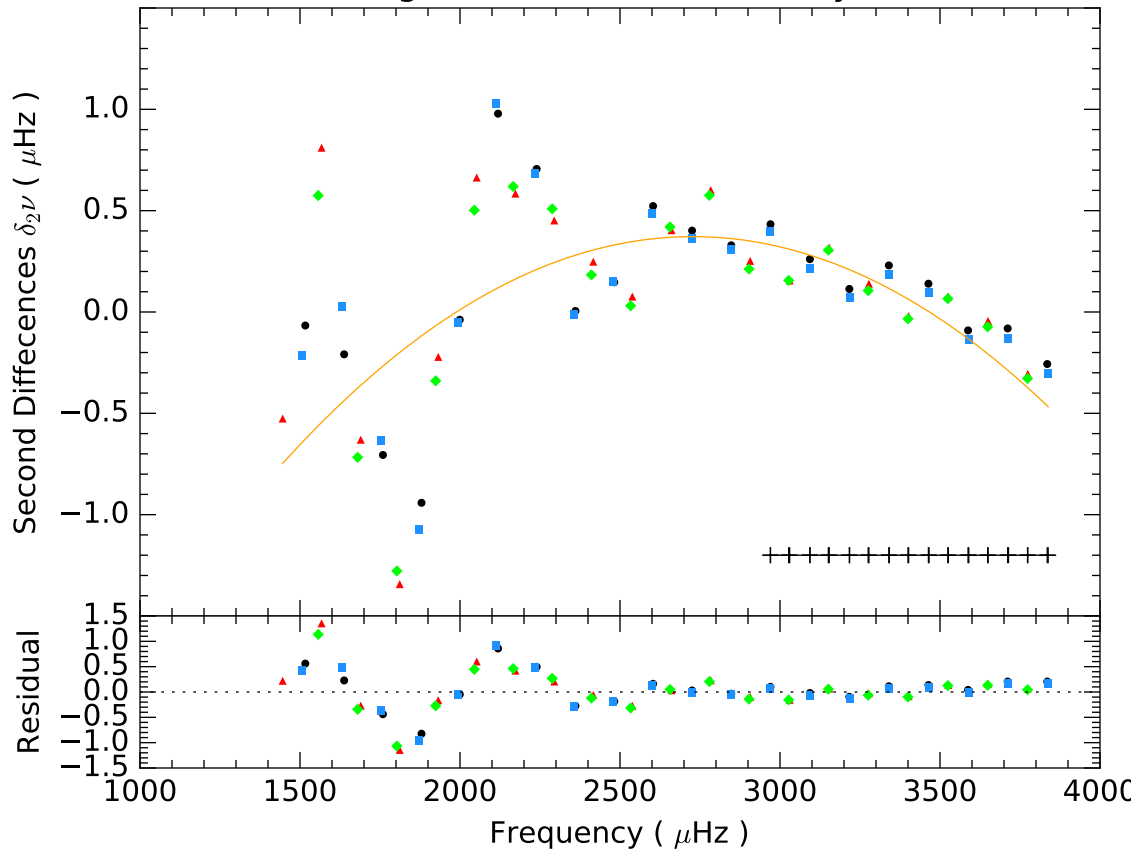
$$a_1 = 0.0036917$$

$$a_2 = -6.6047e-07 \mu\text{Hz}^{-1}$$

profile88

$$\chi^2_\nu(\text{dof} = 76) = 0.16641$$

Age after ZAMS: 23.098 Gyr



Fit parameters:

$$a_0 = -4.6947 \mu \text{ Hz}$$

$$a_1 = 0.0037149$$

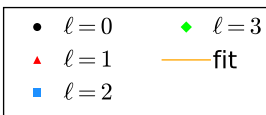
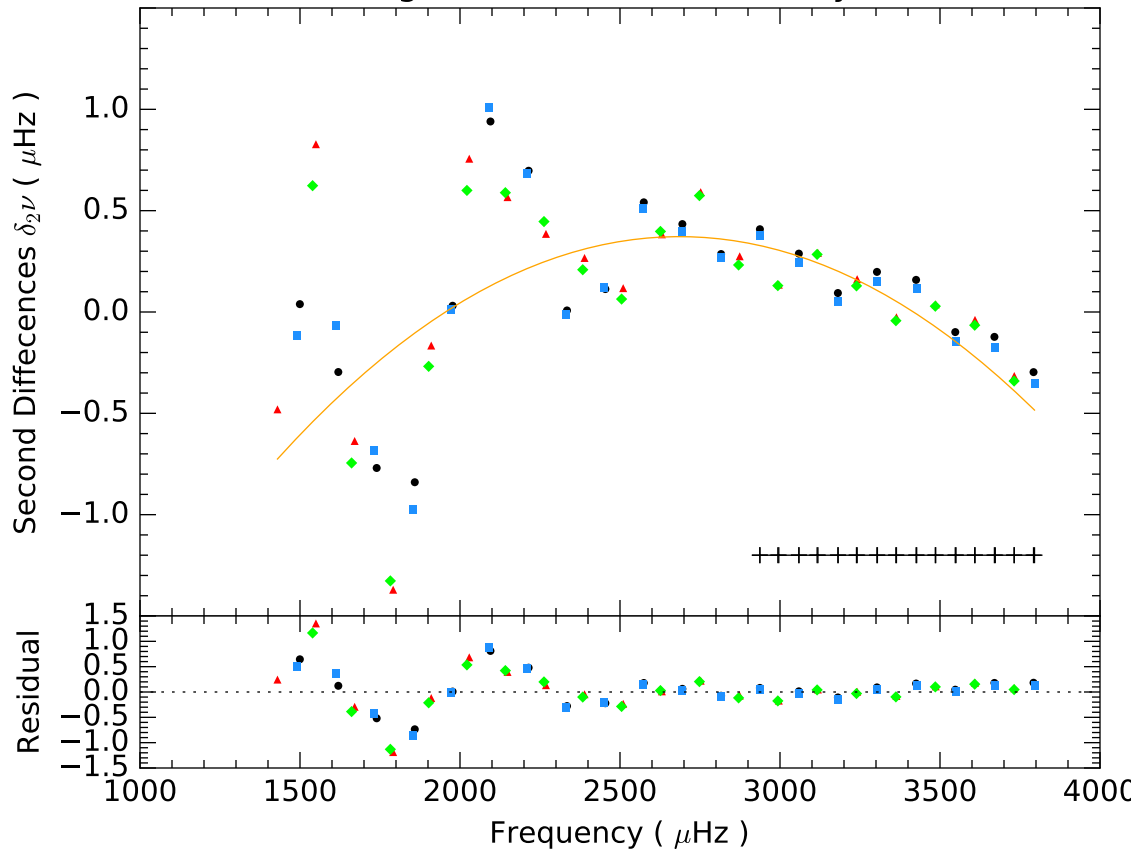
$$a_2 = -6.8093e-07 \mu \text{ Hz}^{-1}$$

profile89

Chi-squared value:

$$\chi^2_\nu (\text{dof} = 76) = 0.16695$$

Age after ZAMS: 23.271 Gyr



$$a_0 = -4.6438 \mu \text{ Hz}$$

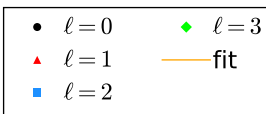
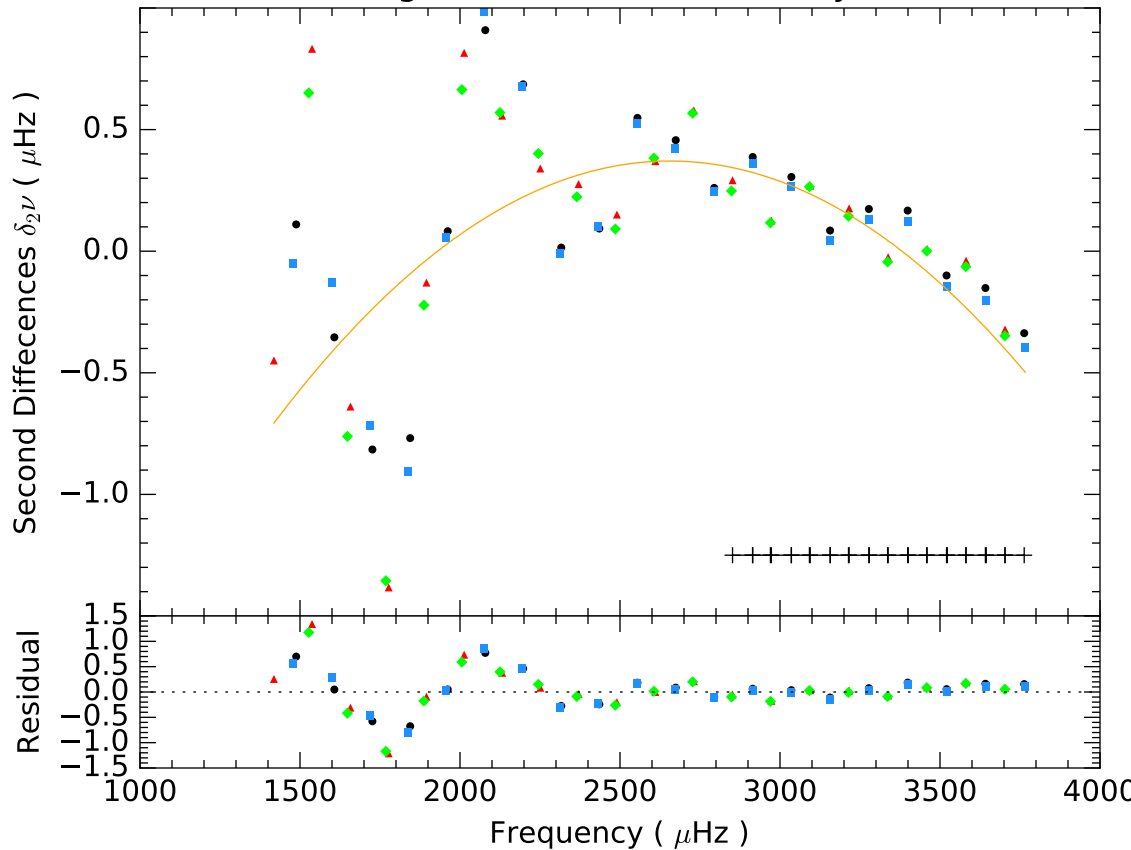
$$a_1 = 0.0037349$$

$$a_2 = -6.953e-07 \mu \text{ Hz}^{-1}$$

profile90

$$\chi^2_\nu (\text{dof} = 76) = 0.16804$$

Age after ZAMS: 23.385 Gyr



$$a_0 = -4.5943 \mu \text{ Hz}$$

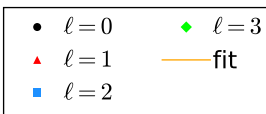
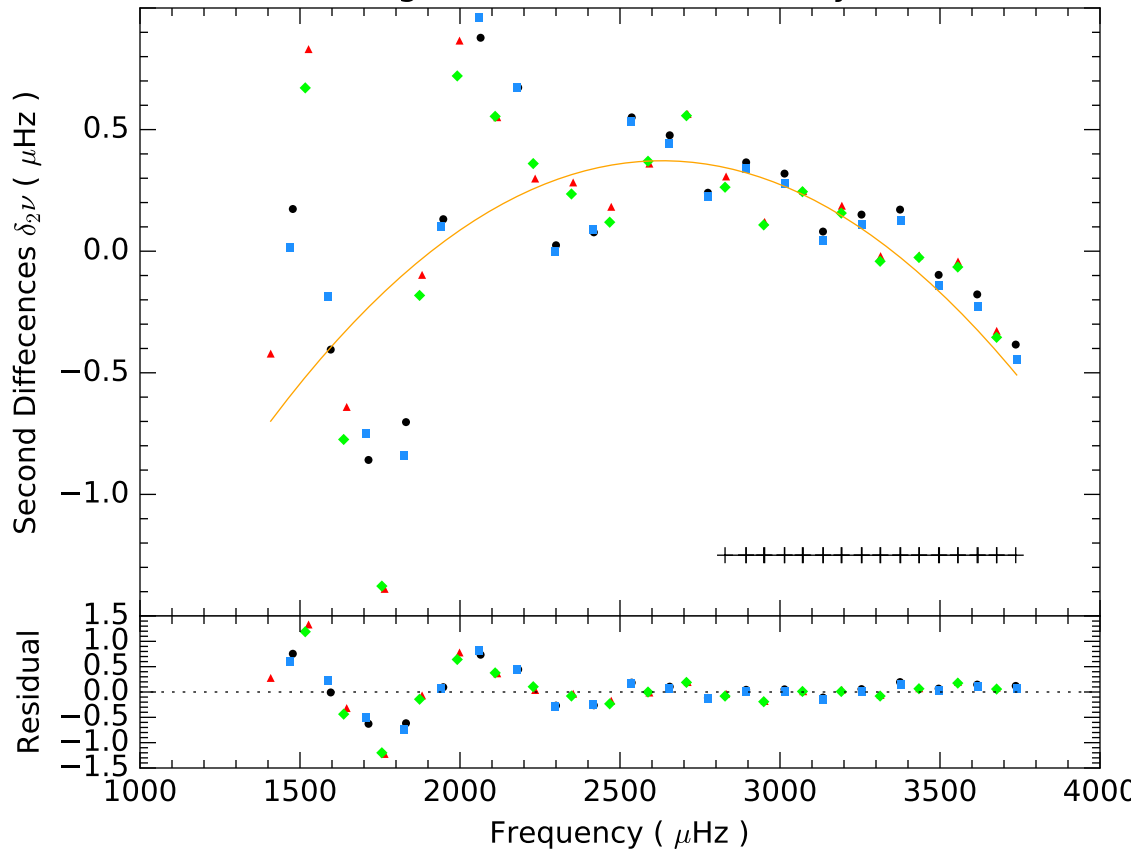
$$a_1 = 0.0037394$$

$$a_2 = -7.0406e-07 \mu \text{ Hz}^{-1}$$

profile91

$$\chi^2_\nu (\text{dof} = 76) = 0.16895$$

Age after ZAMS: 23.487 Gyr

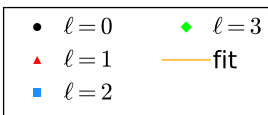
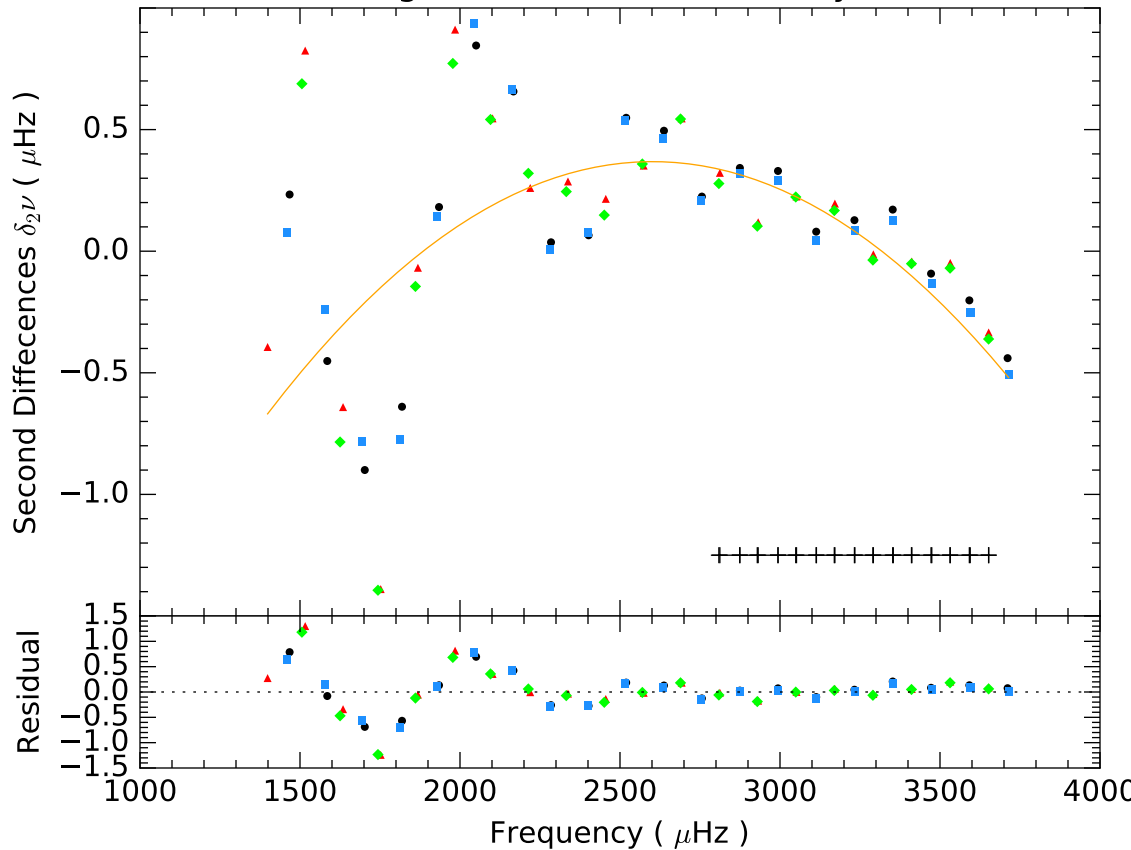


$$\begin{aligned}
 a_0 &= -4.5874 \mu \text{ Hz} \\
 a_1 &= 0.0037699 \\
 a_2 &= -7.1645e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile92

$$\chi^2_\nu(\text{dof} = 76) = 0.17034$$

Age after ZAMS: 23.583 Gyr

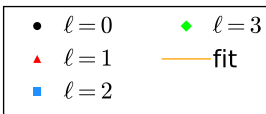
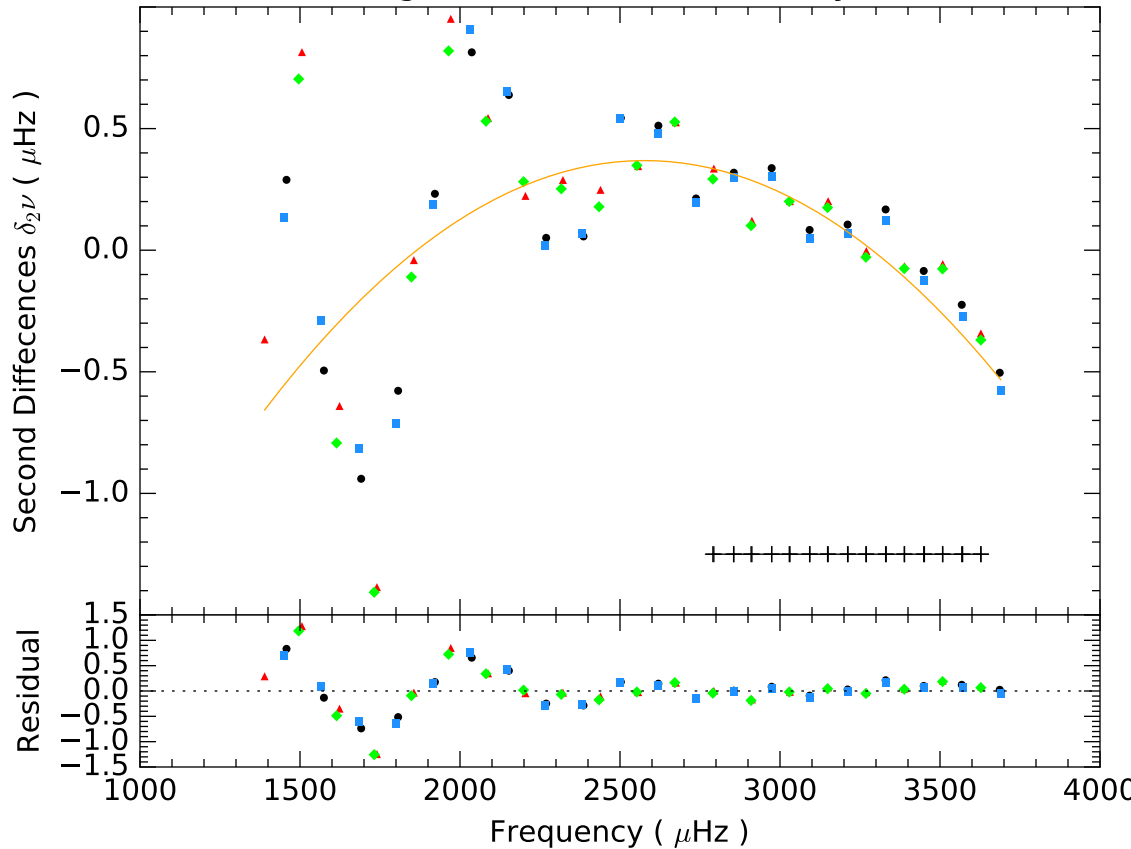


$$\begin{aligned}
 a_0 &= -4.4838 \mu \text{ Hz} \\
 a_1 &= 0.0037302 \\
 a_2 &= -7.1692e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile93

$$\chi^2_\nu(\text{dof} = 76) = 0.17104$$

Age after ZAMS: 23.674 Gyr

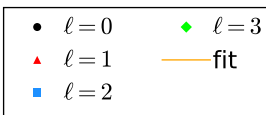
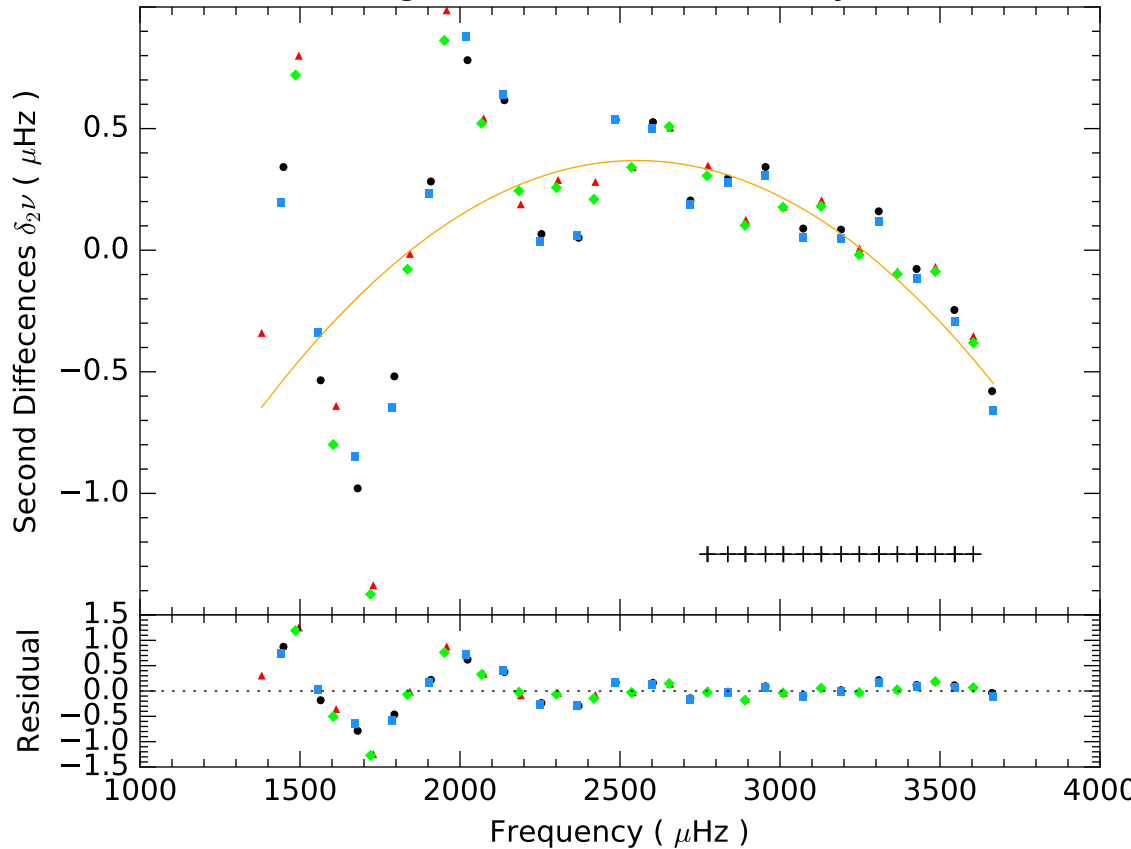


$$\begin{aligned}
 a_0 &= -4.4612 \mu \text{ Hz} \\
 a_1 &= 0.0037486 \\
 a_2 &= -7.2739e-07 \mu\text{Hz}^{-1}
 \end{aligned}$$

profile94

$$\chi^2_\nu (\text{dof} = 76) = 0.17276$$

Age after ZAMS: 23.761 Gyr



$$a_0 = -4.4436 \mu \text{ Hz}$$

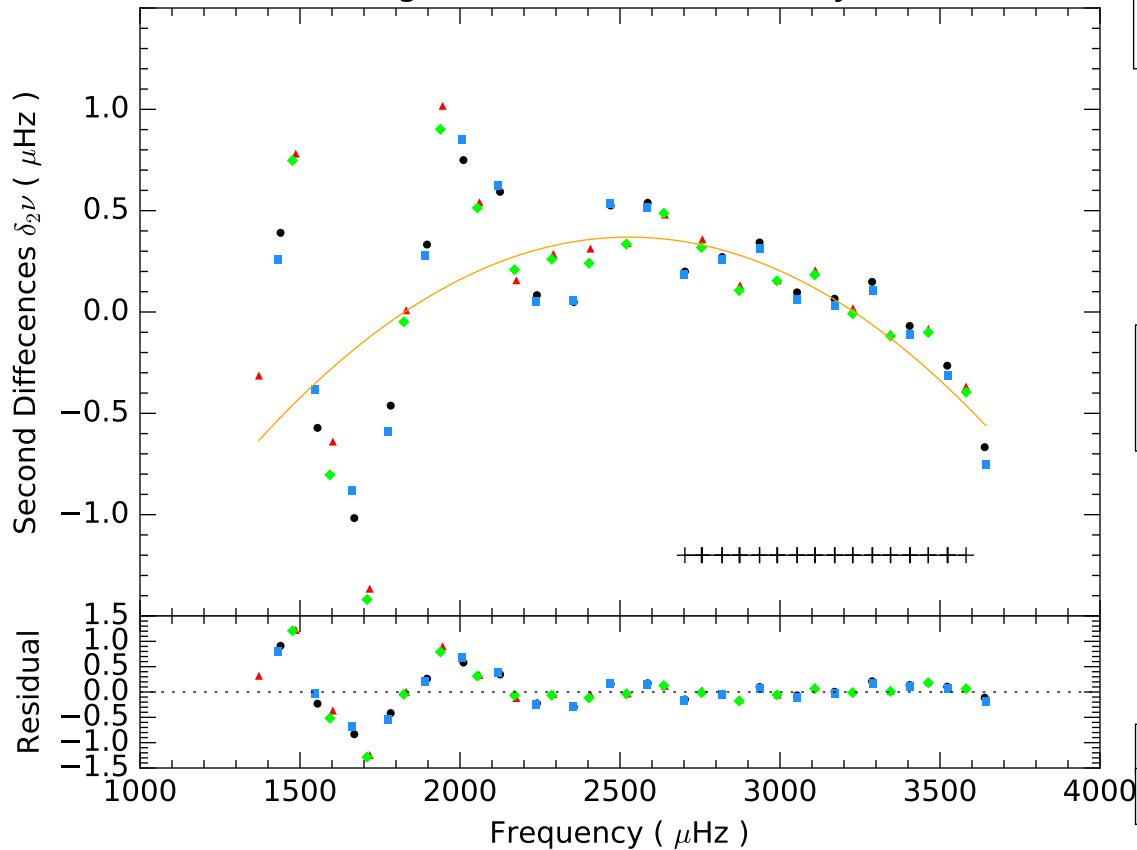
$$a_1 = 0.0037706$$

$$a_2 = -7.3857e-07 \mu\text{Hz}^{-1}$$

profile95

$$\chi^2_\nu(\text{dof} = 76) = 0.17493$$

Age after ZAMS: 23.844 Gyr



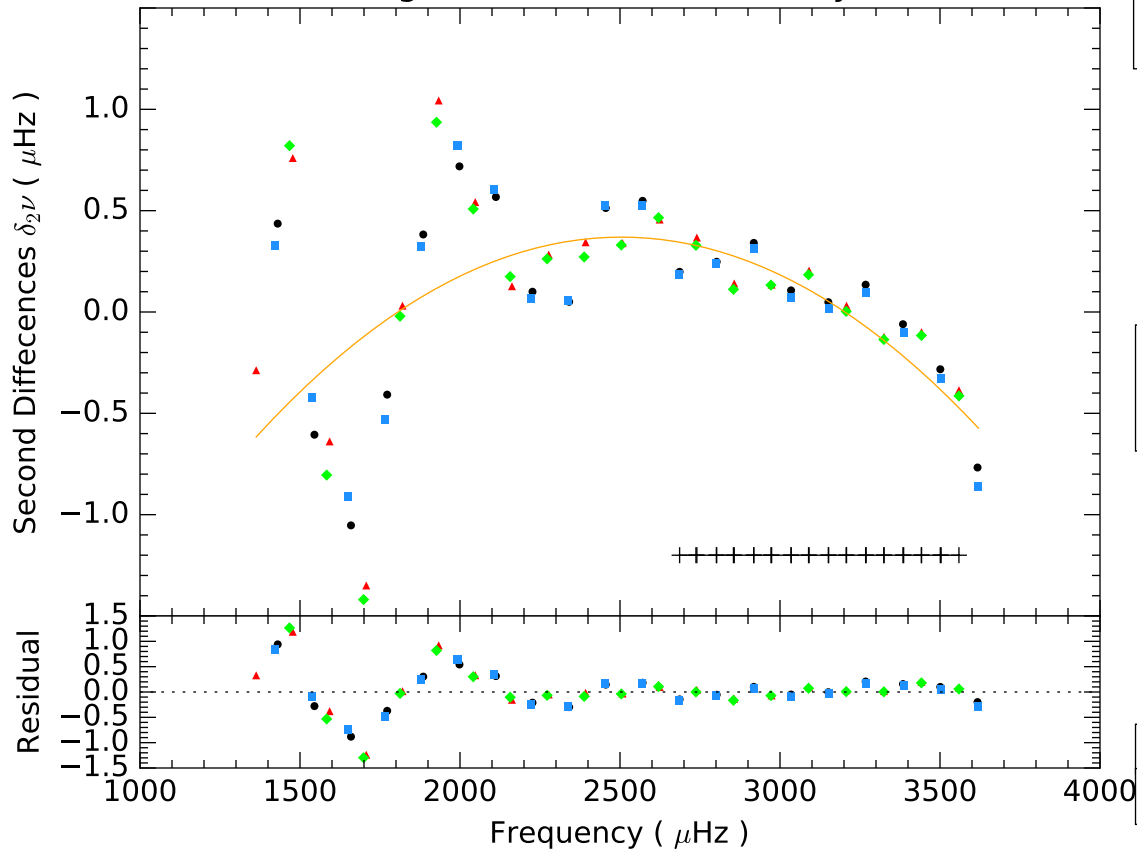
\bullet $\ell=0$ \blacklozenge $\ell=3$
 \blacktriangle $\ell=1$ — fit
 \blacksquare $\ell=2$

$a_0 = -4.4201 \mu \text{ Hz}$
 $a_1 = 0.0037882$
 $a_2 = -7.4901e-07 \mu\text{Hz}^{-1}$

profile96

$\chi^2_\nu(\text{dof} = 76) = 0.17781$

Age after ZAMS: 23.923 Gyr



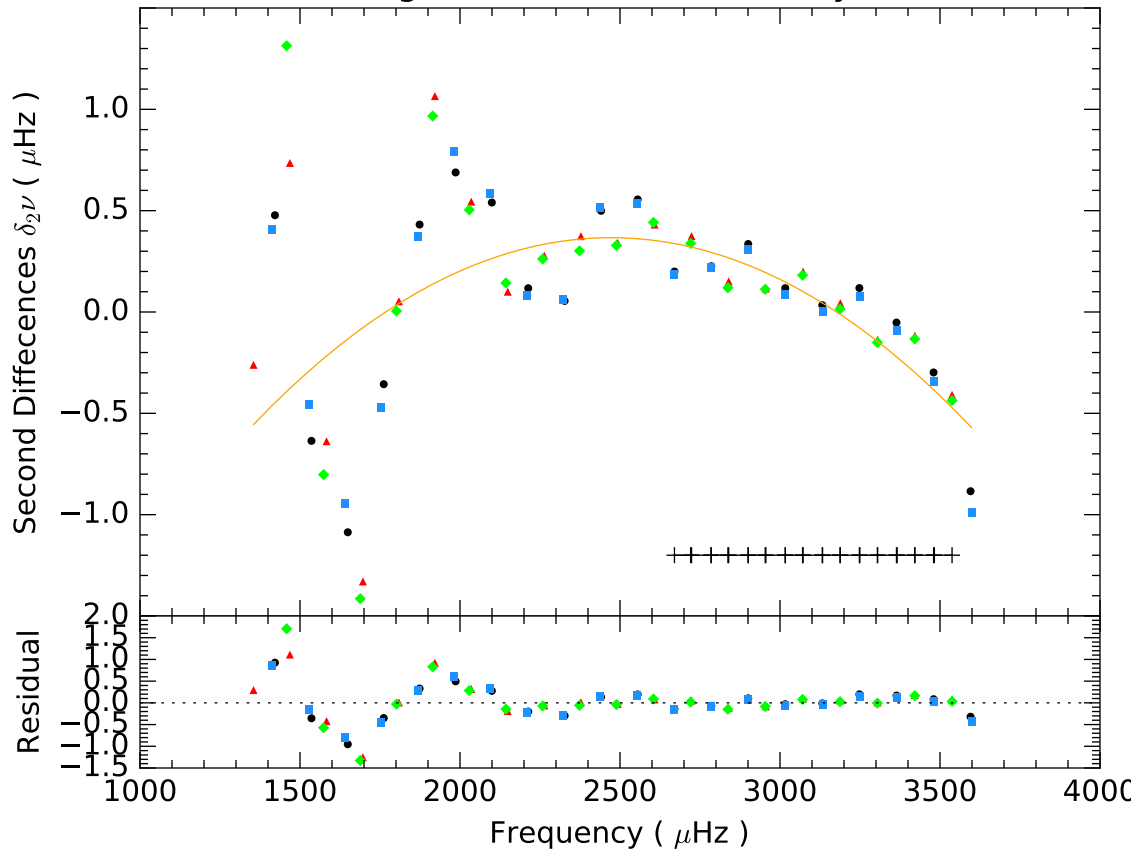
\bullet $\ell=0$ \blacklozenge $\ell=3$
 \blacktriangle $\ell=1$ — fit
 \blacksquare $\ell=2$

$a_0 = -4.3777 \mu \text{ Hz}$
 $a_1 = 0.0037911$
 $a_2 = -7.569e-07 \mu \text{ Hz}^{-1}$

profile97

$\chi^2_\nu (\text{dof} = 76) = 0.18273$

Age after ZAMS: 23.998 Gyr



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

$$a_0 = -4.1456 \mu\text{Hz}$$

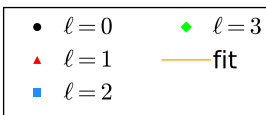
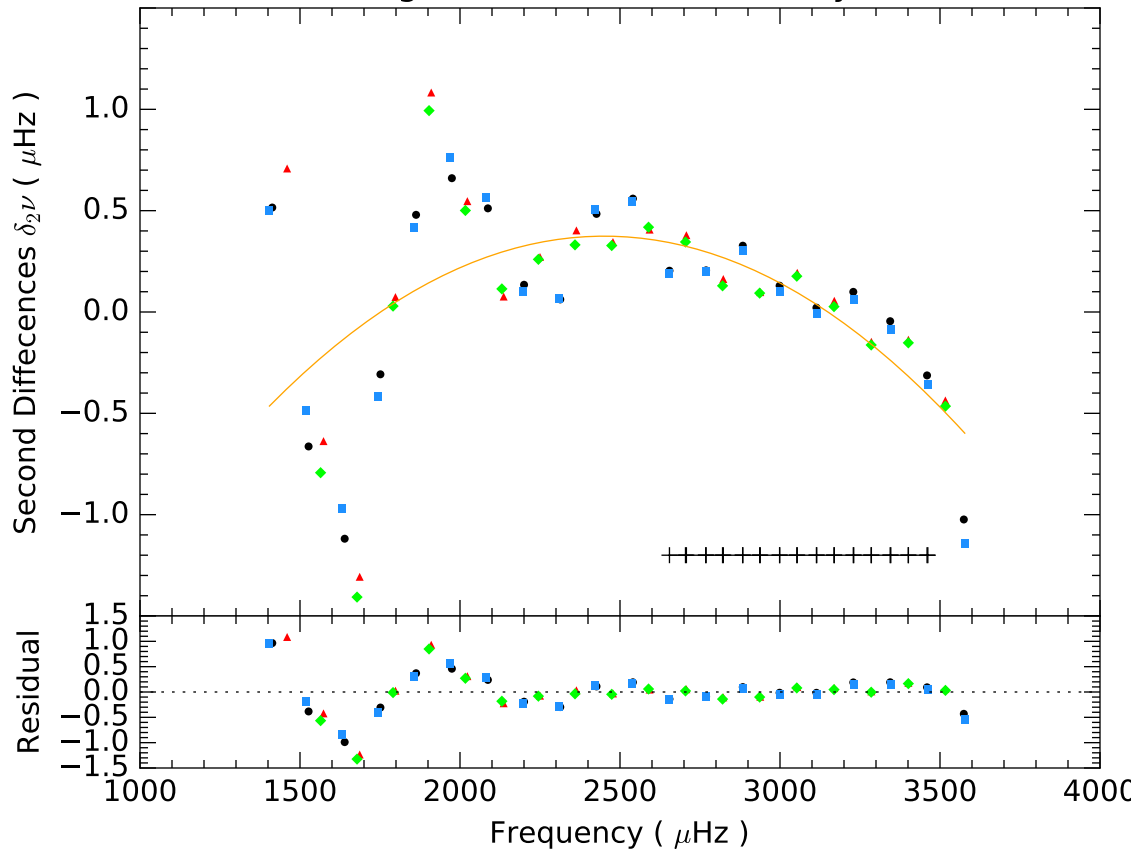
$$a_1 = 0.0036505$$

$$a_2 = -7.3833e-07 \mu\text{Hz}^{-1}$$

profile98

$$\chi^2_\nu(\text{dof} = 76) = 0.20367$$

Age after ZAMS: 24.070 Gyr

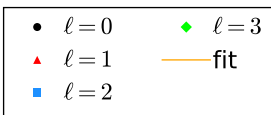
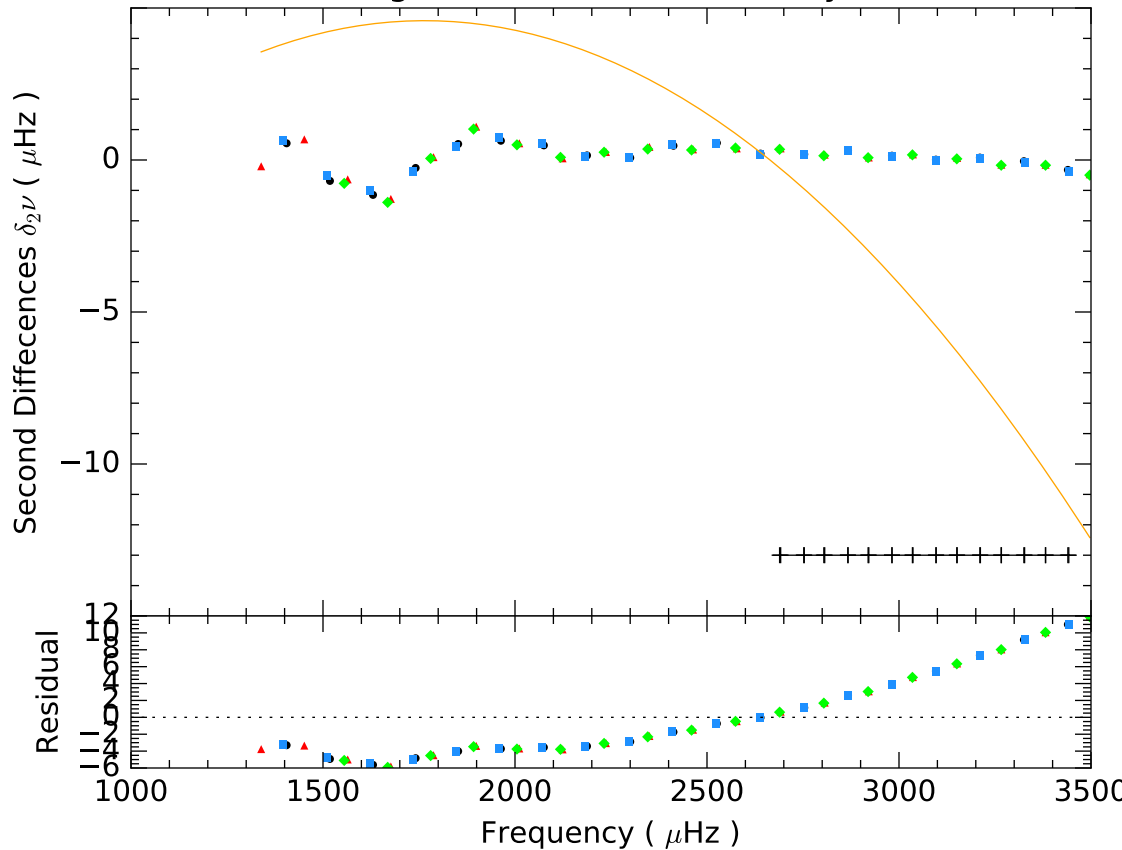


$a_0 = -4.2255 \mu \text{ Hz}$
 $a_1 = 0.0037537$
 $a_2 = -7.6584e-07 \mu \text{ Hz}^{-1}$

profile99

$\chi^2_\nu(\text{dof} = 74) = 0.17437$

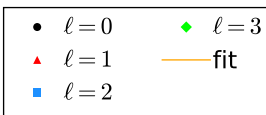
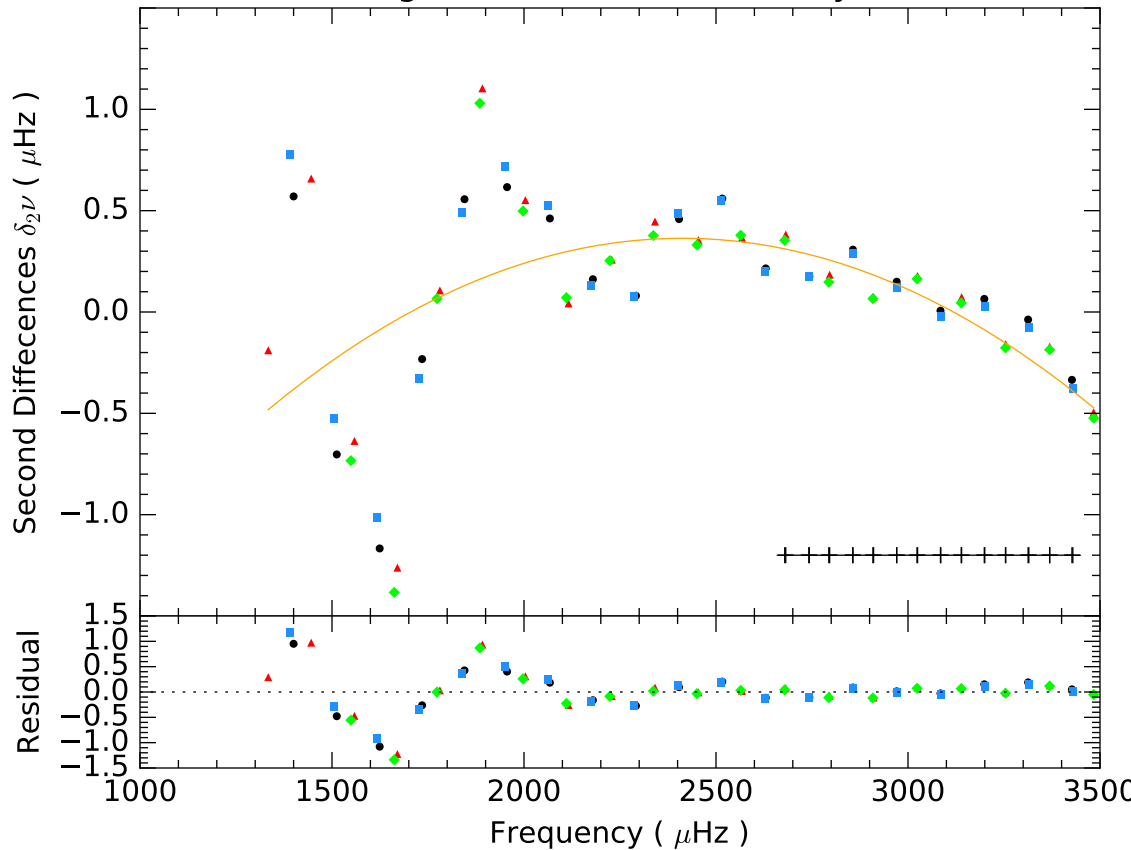
Age after ZAMS: 24.138 Gyr



$a_0 = -13.064 \mu\text{Hz}$
 $a_1 = 0.02$
 $a_2 = -5.6666e-06 \mu\text{Hz}^{-1}$

profile100
 $\chi^2_\nu(\text{dof} = 73) = 27.424$

Age after ZAMS: 24.182 Gyr



$$a_0 = -3.8703 \mu \text{ Hz}$$

$$a_1 = 0.0035114$$

$$a_2 = -7.2803e-07 \mu\text{Hz}^{-1}$$

profile101

$$\chi^2_\nu(\text{dof} = 73) = 0.17819$$