

Supplementary material

The DFT rebuilt equations used for the boundary conditions of pressure inlet or outlet correspond to the equations (A1) and equation (A2), respectively.

$$\begin{aligned}
 P_{\text{in}}(t) = & 7926.2 + (23.3572184452207 \times \cos((0.8091 \times t \times 1) + (-2.73014322960979))) + \\
 & (25.3520041861777 \times \cos((0.8091 \times t \times 2) + (-2.9213028952381))) + \\
 & (21.6911222381025 \times \cos((0.8091 \times t \times 3) + (2.98471957807172))) + \\
 & (23.80657511 \times \cos((0.8091 \times t \times 4) + (2.9299471988701))) + \\
 & (25.20860973 \times \cos((0.8091 \times t \times 5) + (2.80115467736973))) + \\
 & (28.42880753 \times \cos((0.8091 \times t \times 6) + (2.95281590620093))) + \\
 & (31.44811512 \times \cos((0.8091 \times t \times 7) + (2.59697356204618))) + \\
 & (51.21862904 \times \cos((0.8091 \times t \times 8) + (2.27623736743034))) + \\
 & (185.3223792 \times \cos((0.8091 \times t \times 9) + (1.95598824756663))) + \\
 & (189.1135024 \times \cos((0.8091 \times t \times 10) + (-1.45195975755907))) + \\
 & (99.22205046 \times \cos((0.8091 \times t \times 11) + (-1.63075936271292))) + \\
 & (82.7595228 \times \cos((0.8091 \times t \times 12) + (-1.73628196933168))) + \\
 & (84.64863891 \times \cos((0.8091 \times t \times 13) + (-1.80798331058113))) + \\
 & (95.65127759 \times \cos((0.8091 \times t \times 14) + (-1.8334999824972))) + \\
 & (114.5118793 \times \cos((0.8091 \times t \times 15) + (-1.90307641259613))) + \\
 & (149.4958661 \times \cos((0.8091 \times t \times 16) + (-1.92622260174269))) + \\
 & (227.0548917 \times \cos((0.8091 \times t \times 17) + (-1.94284539813118))) + \\
 & (482.2579897 \times \cos((0.8091 \times t \times 18) + (-1.96012849163729))) + \\
 & (3287.569785 \times \cos((0.8091 \times t \times 19) + (1.16302939398196))) + \\
 & (373.8329744 \times \cos((0.8091 \times t \times 20) + (1.14648519565398))) + \\
 & (200.2552554 \times \cos((0.8091 \times t \times 21) + (1.12455420487712))) + \\
 & (138.8227256 \times \cos((0.8091 \times t \times 22) + (1.12522348230003))) + \\
 & (106.5038647 \times \cos((0.8091 \times t \times 23) + (1.10851499862324))) + \\
 & (83.38572432 \times \cos((0.8091 \times t \times 24) + (1.10432519094063))) + \\
 & (72.83057255 \times \cos((0.8091 \times t \times 25) + (1.04680821090846))) + \\
 & (61.66550222 \times \cos((0.8091 \times t \times 26) + (1.05098678039811))) + \\
 & (49.85759933 \times \cos((0.8091 \times t \times 27) + (1.01269517092109))) + \\
 & (15.21268257 \times \cos((0.8091 \times t \times 28) + (-2.19168304518838))) + \\
 & (98.75276679 \times \cos((0.8091 \times t \times 29) + (0.945794766992679))) +
 \end{aligned} \tag{A1}$$

$ \begin{aligned} & (79.47911849 \times \cos((0.8091 \times t \times 30) + (0.899243588794186))) + \\ & (75.36925123 \times \cos((0.8091 \times t \times 31) + (0.864283591334649))) + \\ & (77.57222057 \times \cos((0.8091 \times t \times 32) + (0.83777739504002))) + \\ & (85.78505574 \times \cos((0.8091 \times t \times 33) + (0.781235746355684))) + \\ & (98.3765423 \times \cos((0.8091 \times t \times 34) + (0.715218922903062))) + \\ & (126.0959429 \times \cos((0.8091 \times t \times 35) + (0.66044937959826))) + \\ & (189.6450798 \times \cos((0.8091 \times t \times 36) + (0.615428531148242))) + \\ & (429.1166468 \times \cos((0.8091 \times t \times 37) + (0.558122162372346))) + \\ & (1224.705346 \times \cos((0.8091 \times t \times 38) + (-2.64114395547206))) + \\ & (246.9155148 \times \cos((0.8091 \times t \times 39) + (-2.70235870565839))) + \\ & (138.8512944 \times \cos((0.8091 \times t \times 40) + (-2.75852733077066))) + \\ & (98.86608084 \times \cos((0.8091 \times t \times 41) + (-2.79993408102982))) + \\ & (78.46923028 \times \cos((0.8091 \times t \times 42) + (-2.85093714074789))) + \\ & (62.39341327 \times \cos((0.8091 \times t \times 43) + (-2.84782221552882))) + \\ & (56.80661741 \times \cos((0.8091 \times t \times 44) + (-2.90748196982075))) + \\ & (49.87235608 \times \cos((0.8091 \times t \times 45) + (-2.91645610626241))) + \\ & (47.26365907 \times \cos((0.8091 \times t \times 46) + (-2.87213649361019))) + \\ & (40.72213046 \times \cos((0.8091 \times t \times 47) + (-1.88707367543489))) + \\ & (54.66970383 \times \cos((0.8091 \times t \times 48) + (3.07349868812877))) + \\ & (53.24373636 \times \cos((0.8091 \times t \times 49) + (-3.12622886358165))) + \\ & (53.1720575 \times \cos((0.8091 \times t \times 50) + (-3.12772663837183))) + \\ & (56.79878403 \times \cos((0.8091 \times t \times 51) + (-3.06634223901971))) + \\ & (61.4661891 \times \cos((0.8091 \times t \times 52) + (-3.06860735034253))) + \\ & (71.26261068 \times \cos((0.8091 \times t \times 53) + (-3.06892422631198))) + \\ & (90.93124925 \times \cos((0.8091 \times t \times 54) + (-3.06159725645007))) + \\ & (137.0994102 \times \cos((0.8091 \times t \times 55) + (-3.01461990410151))) + \\ & (333.5596518 \times \cos((0.8091 \times t \times 56) + (-2.98479730566879))) + \\ & (503.4523306 \times \cos((0.8091 \times t \times 57) + (0.194032653485694))) + \\ & (130.0904101 \times \cos((0.8091 \times t \times 58) + (0.225609386159033))) + \\ & (72.54443766 \times \cos((0.8091 \times t \times 59) + (0.267304944851704))) + \\ & (49.9646433 \times \cos((0.8091 \times t \times 60) + (0.291317469228787))) + \\ & (37.14182958 \times \cos((0.8091 \times t \times 61) + (0.307453495553734))) + \\ & (30.48637176 \times \cos((0.8091 \times t \times 62) + (0.384228233714168))) + \end{aligned} $

$ \begin{aligned} & (27.06875767 \times \cos((0.8091 \times t \times 63) + (0.407723562837627))) + \\ & (23.46306897 \times \cos((0.8091 \times t \times 64) + (0.49314117353564))) + \\ & (26.28454826 \times \cos((0.8091 \times t \times 65) + (0.480154222788734))) + \\ & (99.00580859 \times \cos((0.8091 \times t \times 66) + (0.712782092304913))) + \\ & (15.12774334 \times \cos((0.8091 \times t \times 67) + (0.366639303946631))) + \\ & (19.62133136 \times \cos((0.8091 \times t \times 68) + (0.373275399598752))) + \\ & (20.65905536 \times \cos((0.8091 \times t \times 69) + (0.353395814722119))) + \\ & (25.45903172 \times \cos((0.8091 \times t \times 70) + (0.342375329133739))) + \\ & (31.10978094 \times \cos((0.8091 \times t \times 71) + (0.372272236469469))) + \\ & (37.94878731 \times \cos((0.8091 \times t \times 72) + (0.322198280683204))) + \\ & (52.22446644 \times \cos((0.8091 \times t \times 73) + (0.240816080326828))) + \\ & (92.61547709 \times \cos((0.8091 \times t \times 74) + (0.210420868378939))) + \\ & (292.0838847 \times \cos((0.8091 \times t \times 75) + (0.164752434927672))) + \\ & (295.8265023 \times \cos((0.8091 \times t \times 76) + (-3.02529462816888))) + \\ & (103.9450556 \times \cos((0.8091 \times t \times 77) + (-3.07507543125154))) + \\ & (67.64635375 \times \cos((0.8091 \times t \times 78) + (-3.11613629245509))) + \\ & (52.08268553 \times \cos((0.8091 \times t \times 79) + (3.11817167346223))) + \\ & (42.49011654 \times \cos((0.8091 \times t \times 80) + (3.08970397236548))) + \\ & (35.24799569 \times \cos((0.8091 \times t \times 81) + (2.93587001337623))) + \\ & (34.1076775 \times \cos((0.8091 \times t \times 82) + (2.96850439297223))) + \\ & (27.47924885 \times \cos((0.8091 \times t \times 83) + (3.00419162162587))) + \\ & (27.10189271 \times \cos((0.8091 \times t \times 84) + (2.90002843051386))) + \\ & (158.1237048 \times \cos((0.8091 \times t \times 85) + (3.12221614462875))) + \\ & (41.38824916 \times \cos((0.8091 \times t \times 86) + (3.01078011912646))) + \\ & (40.53458782 \times \cos((0.8091 \times t \times 87) + (2.94246933417033))) + \\ & (40.00945003 \times \cos((0.8091 \times t \times 88) + (2.90978654060599))) + \\ & (43.28096848 \times \cos((0.8091 \times t \times 89) + (2.89487796606457))) + \\ & (50.08465092 \times \cos((0.8091 \times t \times 90) + (2.93805089563122))) + \\ & (58.53018908 \times \cos((0.8091 \times t \times 91) + (2.9470973746781))) + \\ & (71.32446113 \times \cos((0.8091 \times t \times 92) + (2.88315199028092))) + \\ & (115.586185 \times \cos((0.8091 \times t \times 93) + (2.90175986240774))) + \\ & (388.422024 \times \cos((0.8091 \times t \times 94) + (2.92798771431022))) + \\ & (199.3970426 \times \cos((0.8091 \times t \times 95) + (-0.202473607326087))) + \end{aligned} $
--

$ \begin{aligned} & (67.53630788 \times \cos((0.8091 \times t \times 96) + (-0.179469086529848))) + \\ & (38.14072587 \times \cos((0.8091 \times t \times 97) + (-0.149563165542874))) + \\ & (26.71139441 \times \cos((0.8091 \times t \times 98) + (-0.0864734650010839))) + \\ & (21.1125059 \times \cos((0.8091 \times t \times 99) + (0.0594655448894554))) + \\ & (0.805522405 \times \cos((0.8091 \times t \times 100) + (0.128119181122383))) + \\ & (4.581846695 \times \cos((0.8091 \times t \times 101) + (0.150824763564819))) + \\ & (13.48241488 \times \cos((0.8091 \times t \times 102) + (1.39756582020484))) + \\ & (19.25829863 \times \cos((0.8091 \times t \times 103) + (1.7324218686582))) + \\ & (137.2458844 \times \cos((0.8091 \times t \times 104) + (-0.923066461615186))) + \\ & (28.37355189 \times \cos((0.8091 \times t \times 105) + (-0.661265564089542))) + \\ & (19.16145992 \times \cos((0.8091 \times t \times 106) + (-0.625202519485438))) + \\ & (15.47881048 \times \cos((0.8091 \times t \times 107) + (-0.607874455476023))) + \\ & (14.93440693 \times \cos((0.8091 \times t \times 108) + (-0.516872034240634))) + \\ & (16.9733927 \times \cos((0.8091 \times t \times 109) + (-0.334408822326063))) + \\ & (25.40305437 \times \cos((0.8091 \times t \times 110) + (-0.55889771763046))) + \\ & (25.19598252 \times \cos((0.8091 \times t \times 111) + (-0.60124476884835))) + \\ & (47.33393747 \times \cos((0.8091 \times t \times 112) + (-0.665442864354598))) + \\ & (262.5456427 \times \cos((0.8091 \times t \times 113) + (-0.578025546957741))) + \\ & (85.12322361 \times \cos((0.8091 \times t \times 114) + (2.56265097050439))) + \\ & (36.71782645 \times \cos((0.8091 \times t \times 115) + (2.52033237042494))) + \\ & (27.39744961 \times \cos((0.8091 \times t \times 116) + (2.53013030135133))) + \\ & (27.90048038 \times \cos((0.8091 \times t \times 117) + (2.45983569071051))) + \\ & (35.92761146 \times \cos((0.8091 \times t \times 118) + (2.52830748747305))) + \\ & (11.14461685 \times \cos((0.8091 \times t \times 119) + (-1.75831200765106))) + \\ & (10.39160365 \times \cos((0.8091 \times t \times 120) + (2.15636137247929))) + \\ & (23.544165 \times \cos((0.8091 \times t \times 121) + (-2.18718515711227))) + \\ & (18.3399303 \times \cos((0.8091 \times t \times 122) + (-1.49426659349826))) + \\ & (58.1804555 \times \cos((0.8091 \times t \times 123) + (1.66449952756641))) + \\ & (23.50386076 \times \cos((0.8091 \times t \times 124) + (1.89622969830337))) + \\ & (19.25827517 \times \cos((0.8091 \times t \times 125) + (2.12478743101301))) + \\ & (16.68566794 \times \cos((0.8091 \times t \times 126) + (2.12810996665904))) + \\ & (19.83064332 \times \cos((0.8091 \times t \times 127) + (2.13584148336779))) + \\ & (37.01656386 \times \cos((0.8091 \times t \times 128) + (2.60282789473152))) + \end{aligned} $

$$\begin{aligned}
& (30.28631192 \times \cos((0.8091 \times t \times 129) + (2.13188521267641))) + \\
& (29.39717856 \times \cos((0.8091 \times t \times 130) + (2.40595747800156))) + \\
& (41.88196187 \times \cos((0.8091 \times t \times 131) + (2.51702589183533))) + \\
& (406.764432 \times \cos((0.8091 \times t \times 132) + (2.54289540236518))) + \\
& (40.91471449 \times \cos((0.8091 \times t \times 133) + (-0.533099263934931))) + \\
& (8.341236632 \times \cos((0.8091 \times t \times 134) + (-0.124565668098551))) + \\
& (4.781730413 \times \cos((0.8091 \times t \times 135) + (-0.399739553727232))) + \\
& (14.58299723 \times \cos((0.8091 \times t \times 136) + (-1.76576571575651))) + \\
& (41.32679569 \times \cos((0.8091 \times t \times 137) + (-1.58315508107204))) + \\
& (17.89785409 \times \cos((0.8091 \times t \times 138) + (1.410607312751))) + \\
& (22.46214163 \times \cos((0.8091 \times t \times 139) + (2.26115353915864))) + \\
& (24.52881353 \times \cos((0.8091 \times t \times 140) + (1.20609911720515))) + \\
& (72.11367879 \times \cos((0.8091 \times t \times 141) + (1.87014673703034))) + \\
& (65.54359139 \times \cos((0.8091 \times t \times 142) + (-1.22376307080947))) + \\
& (18.28865867 \times \cos((0.8091 \times t \times 143) + (-1.2117998181984))) + \\
& (12.49621443 \times \cos((0.8091 \times t \times 144) + (-0.967053208643137))) + \\
& (5.876264142 \times \cos((0.8091 \times t \times 145) + (-0.620332695960097))) + \\
& (7.823639451 \times \cos((0.8091 \times t \times 146) + (1.96187243659547))) + \\
& (32.36543423 \times \cos((0.8091 \times t \times 147) + (-1.54016336696265))) + \\
& (21.1113995 \times \cos((0.8091 \times t \times 148) + (-2.40231015855661))) + \\
& (9.437665121 \times \cos((0.8091 \times t \times 149) + (-2.99632287997523))) + \\
& (5.63943034 \times \cos((0.8091 \times t \times 150) + (1.05598676713986))),;
\end{aligned}$$

$$\begin{aligned}
P_{\text{out}}(t) = & 7616.9 + (19.59353883 \times \cos((0.8091 \times t \times 1) + (-2.52132962188925))) + \\
& (21.99942962 \times \cos((0.8091 \times t \times 2) + (-2.91759219054071))) + \\
& (18.66910461 \times \cos((0.8091 \times t \times 3) + (3.0096865739171))) + \\
& (21.61085595 \times \cos((0.8091 \times t \times 4) + (2.89305101746375))) + \\
& (21.17934832 \times \cos((0.8091 \times t \times 5) + (3.01538380967645))) + \\
& (25.83750107 \times \cos((0.8091 \times t \times 6) + (2.90700794674181))) + \\
& (29.64682911 \times \cos((0.8091 \times t \times 7) + (2.56067555676701))) + \\
& (50.51307968 \times \cos((0.8091 \times t \times 8) + (2.2021137883011))) + \\
& (192.2515213 \times \cos((0.8091 \times t \times 9) + (1.95653859221479))) + \\
& (197.099919 \times \cos((0.8091 \times t \times 10) + (-1.41773875437525))) +
\end{aligned} \tag{A2}$$

$ \begin{aligned} & (101.1077156 \times \cos((0.8091 \times t \times 11) + (-1.58660845729593))) + \\ & (85.72113343 \times \cos((0.8091 \times t \times 12) + (-1.69600010593317))) + \\ & (86.84458118 \times \cos((0.8091 \times t \times 13) + (-1.77075116050301))) + \\ & (99.60478326 \times \cos((0.8091 \times t \times 14) + (-1.84490392234639))) + \\ & (119.1155563 \times \cos((0.8091 \times t \times 15) + (-1.90110764621271))) + \\ & (155.5777106 \times \cos((0.8091 \times t \times 16) + (-1.94535481746586))) + \\ & (236.6925804 \times \cos((0.8091 \times t \times 17) + (-1.97601548306056))) + \\ & (505.0057619 \times \cos((0.8091 \times t \times 18) + (-2.01603137951005))) + \\ & (3463.117856 \times \cos((0.8091 \times t \times 19) + (1.08976743276454))) + \\ & (396.0657464 \times \cos((0.8091 \times t \times 20) + (1.05588374307285))) + \\ & (212.5735908 \times \cos((0.8091 \times t \times 21) + (1.01842452848648))) + \\ & (147.8992292 \times \cos((0.8091 \times t \times 22) + (0.994233040986339))) + \\ & (113.6613118 \times \cos((0.8091 \times t \times 23) + (0.961254455630287))) + \\ & (92.67243536 \times \cos((0.8091 \times t \times 24) + (0.901304411098474))) + \\ & (79.26426274 \times \cos((0.8091 \times t \times 25) + (0.859191081281492))) + \\ & (67.22137826 \times \cos((0.8091 \times t \times 26) + (0.816643611535685))) + \\ & (53.6008164 \times \cos((0.8091 \times t \times 27) + (0.768706945031139))) + \\ & (26.66535683 \times \cos((0.8091 \times t \times 28) + (-1.59334986368977))) + \\ & (116.6865775 \times \cos((0.8091 \times t \times 29) + (0.792290558858944))) + \\ & (92.4597749 \times \cos((0.8091 \times t \times 30) + (0.709825864610643))) + \\ & (89.30226689 \times \cos((0.8091 \times t \times 31) + (0.648364206584861))) + \\ & (93.08635686 \times \cos((0.8091 \times t \times 32) + (0.613348063064746))) + \\ & (103.3842917 \times \cos((0.8091 \times t \times 33) + (0.533226763344043))) + \\ & (121.3670607 \times \cos((0.8091 \times t \times 34) + (0.477623402087261))) + \\ & (156.6954952 \times \cos((0.8091 \times t \times 35) + (0.416067579540618))) + \\ & (237.1088532 \times \cos((0.8091 \times t \times 36) + (0.374781711833062))) + \\ & (540.7571938 \times \cos((0.8091 \times t \times 37) + (0.314566070818066))) + \\ & (1550.558718 \times \cos((0.8091 \times t \times 38) + (-2.8829925376588))) + \\ & (314.0342155 \times \cos((0.8091 \times t \times 39) + (-2.94280458515672))) + \\ & (176.3500383 \times \cos((0.8091 \times t \times 40) + (-2.99249751963092))) + \\ & (125.0799245 \times \cos((0.8091 \times t \times 41) + (-3.0447596847857))) + \\ & (98.81861942 \times \cos((0.8091 \times t \times 42) + (-3.08922510254632))) + \\ & (80.45924728 \times \cos((0.8091 \times t \times 43) + (3.12607351281201))) + \end{aligned} $
--

$(71.87169311 \times \cos((0.8091 \times t \times 44) + (3.11630963755286))) +$ $(62.66815718 \times \cos((0.8091 \times t \times 45) + (3.06792504141461))) +$ $(59.27863817 \times \cos((0.8091 \times t \times 46) + (3.10339297019172))) +$ $(35.49080776 \times \cos((0.8091 \times t \times 47) + (-2.17458418635295))) +$ $(72.19905535 \times \cos((0.8091 \times t \times 48) + (2.84184085333639))) +$ $(70.4894891 \times \cos((0.8091 \times t \times 49) + (2.88908003068853))) +$ $(71.04676872 \times \cos((0.8091 \times t \times 50) + (2.84432093121257))) +$ $(77.8304361 \times \cos((0.8091 \times t \times 51) + (2.87480986750285))) +$ $(86.07780958 \times \cos((0.8091 \times t \times 52) + (2.83260051741124))) +$ $(102.9157771 \times \cos((0.8091 \times t \times 53) + (2.81697073419535))) +$ $(134.9835522 \times \cos((0.8091 \times t \times 54) + (2.78805051775345))) +$ $(210.8046333 \times \cos((0.8091 \times t \times 55) + (2.80152060824453))) +$ $(533.502598 \times \cos((0.8091 \times t \times 56) + (2.78541070510292))) +$ $(840.156458 \times \cos((0.8091 \times t \times 57) + (-0.363026483826688))) +$ $(228.2429011 \times \cos((0.8091 \times t \times 58) + (-0.379749218639916))) +$ $(133.4442189 \times \cos((0.8091 \times t \times 59) + (-0.387755900450914))) +$ $(95.6581993 \times \cos((0.8091 \times t \times 60) + (-0.406438308853684))) +$ $(76.04708389 \times \cos((0.8091 \times t \times 61) + (-0.432387473929395))) +$ $(62.79021079 \times \cos((0.8091 \times t \times 62) + (-0.456830970218592))) +$ $(57.3763118 \times \cos((0.8091 \times t \times 63) + (-0.442688684992672))) +$ $(51.40454688 \times \cos((0.8091 \times t \times 64) + (-0.437002555666488))) +$ $(56.34884184 \times \cos((0.8091 \times t \times 65) + (-0.438529939795284))) +$ $(156.4558404 \times \cos((0.8091 \times t \times 66) + (-0.0514420220039667))) +$ $(44.52242282 \times \cos((0.8091 \times t \times 67) + (-0.697224934398719))) +$ $(52.43489047 \times \cos((0.8091 \times t \times 68) + (-0.671762502354919))) +$ $(56.30074082 \times \cos((0.8091 \times t \times 69) + (-0.720359208334782))) +$ $(66.35312163 \times \cos((0.8091 \times t \times 70) + (-0.736990626361281))) +$ $(76.56605323 \times \cos((0.8091 \times t \times 71) + (-0.777284930453989))) +$ $(95.2534159 \times \cos((0.8091 \times t \times 72) + (-0.817437758263339))) +$ $(129.3546843 \times \cos((0.8091 \times t \times 73) + (-0.913338331930521))) +$ $(219.079364 \times \cos((0.8091 \times t \times 74) + (-0.941627597916975))) +$ $(656.1252932 \times \cos((0.8091 \times t \times 75) + (-0.999716392407033))) +$ $(632.4463867 \times \cos((0.8091 \times t \times 76) + (2.08598054115227))) +$

$ \begin{aligned} & (210.8720804 \times \cos((0.8091 \times t \times 77) + (2.02828804659188))) + \\ & (130.2610078 \times \cos((0.8091 \times t \times 78) + (1.97397913114098))) + \\ & (94.43749169 \times \cos((0.8091 \times t \times 79) + (1.92594922945012))) + \\ & (72.64760801 \times \cos((0.8091 \times t \times 80) + (1.87395953134856))) + \\ & (56.11714687 \times \cos((0.8091 \times t \times 81) + (1.65487860916529))) + \\ & (52.81467877 \times \cos((0.8091 \times t \times 82) + (1.70267855360261))) + \\ & (37.91943421 \times \cos((0.8091 \times t \times 83) + (1.66673840673744))) + \\ & (38.29413692 \times \cos((0.8091 \times t \times 84) + (1.58845703131001))) + \\ & (278.3036183 \times \cos((0.8091 \times t \times 85) + (1.58453134951927))) + \\ & (60.13315399 \times \cos((0.8091 \times t \times 86) + (1.52444088254605))) + \\ & (57.71825284 \times \cos((0.8091 \times t \times 87) + (1.40467916883564))) + \\ & (55.40785256 \times \cos((0.8091 \times t \times 88) + (1.32376814256418))) + \\ & (59.39230703 \times \cos((0.8091 \times t \times 89) + (1.24689963225069))) + \\ & (65.4593372 \times \cos((0.8091 \times t \times 90) + (1.21625257826026))) + \\ & (83.55243567 \times \cos((0.8091 \times t \times 91) + (1.17204489252201))) + \\ & (103.4274639 \times \cos((0.8091 \times t \times 92) + (1.02300623646887))) + \\ & (179.7360001 \times \cos((0.8091 \times t \times 93) + (0.973012699226712))) + \\ & (640.5286455 \times \cos((0.8091 \times t \times 94) + (0.927781398000096))) + \\ & (357.4515742 \times \cos((0.8091 \times t \times 95) + (-2.27776304490994))) + \\ & (135.0394087 \times \cos((0.8091 \times t \times 96) + (-2.33613758995244))) + \\ & (85.05792312 \times \cos((0.8091 \times t \times 97) + (-2.37969070447808))) + \\ & (64.99621104 \times \cos((0.8091 \times t \times 98) + (-2.37707608067835))) + \\ & (52.73780762 \times \cos((0.8091 \times t \times 99) + (-2.27642093990952))) + \\ & (27.29668439 \times \cos((0.8091 \times t \times 100) + (-2.8851242655866))), \end{aligned} $	
--	--