
TD-DFT/TDA EXCITED STATES

the weight of the individual excitations are printed if larger than 1.0e-02

STATE 1: E= 0.104081 au 2.832 eV 22843.0 cm**⁻¹ <S**2> = 9.547072
205a -> 212a : 0.013482 (c= 0.11611288)
209a -> 212a : 0.099537 (c= -0.31549488)
210a -> 211a : 0.582352 (c= -0.76311963)
210a -> 213a : 0.138182 (c= 0.37172823)
205b -> 207b : 0.014230 (c= -0.11928856)

STATE 2: E= 0.105900 au 2.882 eV 23242.4 cm**⁻¹ <S**2> = 9.600350
205a -> 213a : 0.014695 (c= 0.12122263)
209a -> 211a : 0.292572 (c= 0.54089903)
209a -> 213a : 0.167606 (c= 0.40939693)
210a -> 212a : 0.322574 (c= 0.56795606)
210a -> 214a : 0.014193 (c= 0.11913446)
202b -> 206b : 0.023028 (c= -0.15175000)
204b -> 207b : 0.010120 (c= 0.10059691)
205b -> 208b : 0.015685 (c= 0.12524079)

STATE 3: E= 0.108836 au 2.962 eV 23886.8 cm**⁻¹ <S**2> = 9.555729
207a -> 213a : 0.023731 (c= 0.15404751)
209a -> 211a : 0.011810 (c= -0.10867461)
209a -> 212a : 0.047900 (c= 0.21886143)
209a -> 213a : 0.026663 (c= -0.16328666)
209a -> 214a : 0.016227 (c= 0.12738616)
209a -> 215a : 0.068363 (c= -0.26146375)
210a -> 211a : 0.068615 (c= 0.26194393)
210a -> 212a : 0.041855 (c= 0.20458541)
210a -> 213a : 0.501826 (c= 0.70839690)
203b -> 206b : 0.012406 (c= 0.11138379)
204b -> 206b : 0.015828 (c= -0.12580827)

STATE 4: E= 0.109850 au 2.989 eV 24109.3 cm**⁻¹ <S**2> = 9.623078
208a -> 212a : 0.015648 (c= -0.12509143)
209a -> 211a : 0.138137 (c= 0.37166775)
209a -> 212a : 0.201274 (c= -0.44863622)
209a -> 213a : 0.016864 (c= 0.12986291)
209a -> 214a : 0.031266 (c= 0.17682065)
209a -> 216a : 0.017618 (c= 0.13273400)
210a -> 211a : 0.084002 (c= 0.28983079)
210a -> 212a : 0.128870 (c= -0.35898476)
210a -> 213a : 0.046454 (c= 0.21553213)
210a -> 214a : 0.020263 (c= -0.14234694)
210a -> 215a : 0.032738 (c= -0.18093564)
210a -> 216a : 0.032500 (c= -0.18027655)
203b -> 207b : 0.010628 (c= -0.10309058)
205b -> 206b : 0.011443 (c= 0.10697129)

STATE 5: E= 0.110403 au 3.004 eV 24230.8 cm**⁻¹ <S**2> = 9.673010
208a -> 211a : 0.012300 (c= 0.11090452)

208a -> 213a : 0.013988 (c= -0.11827121)
209a -> 211a : 0.145831 (c= 0.38187861)
209a -> 212a : 0.267165 (c= 0.51688025)
209a -> 214a : 0.015331 (c= -0.12381654)
210a -> 211a : 0.029516 (c= -0.17180077)
210a -> 212a : 0.106760 (c= -0.32674186)
210a -> 214a : 0.059731 (c= -0.24439983)
210a -> 215a : 0.030521 (c= -0.17470300)
210a -> 216a : 0.051980 (c= 0.22799018)
201b -> 207b : 0.012374 (c= -0.11123830)
204b -> 210b : 0.011442 (c= -0.10696799)
205b -> 207b : 0.011383 (c= -0.10669304)
205b -> 210b : 0.013024 (c= -0.11412247)

STATE 6: E= 0.110943 au 3.019 eV 24349.2 cm**-1 <S**2> = 9.778646

205a -> 211a : 0.012978 (c= -0.11392092)
207a -> 212a : 0.012720 (c= -0.11278459)
209a -> 211a : 0.068546 (c= 0.26181220)
209a -> 212a : 0.039174 (c= -0.19792515)
209a -> 213a : 0.438332 (c= -0.66206669)
209a -> 216a : 0.021285 (c= 0.14589530)
210a -> 212a : 0.080216 (c= 0.28322413)
210a -> 213a : 0.019909 (c= -0.14109810)
210a -> 214a : 0.030757 (c= -0.17537710)
201b -> 206b : 0.029631 (c= 0.17213650)
202b -> 208b : 0.030538 (c= 0.17475077)
204b -> 207b : 0.018778 (c= 0.13703300)
204b -> 209b : 0.018786 (c= 0.13706102)
205b -> 206b : 0.013430 (c= -0.11588979)

STATE 7: E= 0.118768 au 3.232 eV 26066.5 cm**-1 <S**2> = 9.377061

205a -> 216a : 0.012458 (c= -0.11161321)
209a -> 211a : 0.190575 (c= -0.43654932)
209a -> 213a : 0.063853 (c= 0.25269082)
209a -> 216a : 0.025492 (c= 0.15966140)
210a -> 212a : 0.163835 (c= 0.40476498)
210a -> 214a : 0.303037 (c= -0.55048815)
210a -> 215a : 0.092831 (c= -0.30468111)

STATE 8: E= 0.120141 au 3.269 eV 26367.9 cm**-1 <S**2> = 9.495268

205a -> 215a : 0.015891 (c= 0.12606132)
209a -> 212a : 0.078095 (c= -0.27945512)
209a -> 214a : 0.212815 (c= -0.46131837)
209a -> 215a : 0.127107 (c= 0.35652131)
210a -> 211a : 0.128548 (c= 0.35853546)
210a -> 213a : 0.111020 (c= 0.33319683)
210a -> 215a : 0.019412 (c= 0.13932699)
210a -> 216a : 0.100292 (c= 0.31668972)
202b -> 209b : 0.014346 (c= 0.11977504)
203b -> 208b : 0.010513 (c= -0.10253055)
205b -> 211b : 0.011215 (c= 0.10589989)

STATE 9: E= 0.120886 au 3.289 eV 26531.4 cm**-1 <S**2> = 9.429304

205a -> 214a : 0.015065 (c= -0.12273828)

209a -> 212a : 0.109119 (c= 0.33033186)
209a -> 213a : 0.015931 (c= -0.12621795)
209a -> 215a : 0.216157 (c= 0.46492685)
210a -> 211a : 0.011825 (c= -0.10874092)
210a -> 212a : 0.012600 (c= 0.11225015)
210a -> 213a : 0.105616 (c= 0.32498574)
210a -> 216a : 0.335811 (c= -0.57949221)
202b -> 211b : 0.010088 (c= -0.10044077)
205b -> 207b : 0.012316 (c= 0.11097695)
205b -> 209b : 0.010418 (c= -0.10207072)

STATE 10: E= 0.125409 au 3.413 eV 27524.2 cm**⁻¹ <S**2> = 9.273796

207a -> 215a : 0.011800 (c= -0.10862894)
209a -> 211a : 0.027542 (c= -0.16595662)
209a -> 213a : 0.077054 (c= -0.27758609)
209a -> 215a : 0.017063 (c= 0.13062522)
209a -> 219a : 0.015877 (c= 0.12600560)
210a -> 214a : 0.249427 (c= 0.49942703)
210a -> 215a : 0.457940 (c= -0.67671248)

STATE 11: E= 0.127364 au 3.466 eV 27953.3 cm**⁻¹ <S**2> = 9.385511

208a -> 214a : 0.012980 (c= -0.11392925)
209a -> 211a : 0.013168 (c= 0.11475115)
209a -> 212a : 0.041664 (c= -0.20411823)
209a -> 214a : 0.316488 (c= -0.56257297)
209a -> 215a : 0.176450 (c= -0.42005993)
209a -> 216a : 0.041834 (c= -0.20453279)
210a -> 211a : 0.018683 (c= -0.13668444)
210a -> 214a : 0.014325 (c= -0.11968518)
210a -> 215a : 0.030403 (c= -0.17436388)
210a -> 216a : 0.098631 (c= -0.31405646)
210a -> 217a : 0.015878 (c= 0.12600935)
210a -> 219a : 0.013385 (c= 0.11569457)
204b -> 206b : 0.012155 (c= -0.11024787)

STATE 12: E= 0.128013 au 3.483 eV 28095.6 cm**⁻¹ <S**2> = 9.485720

207a -> 212a : 0.011478 (c= -0.10713620)
208a -> 216a : 0.019791 (c= 0.14068164)
209a -> 211a : 0.042278 (c= -0.20561645)
209a -> 213a : 0.035374 (c= 0.18808060)
209a -> 214a : 0.069865 (c= -0.26432013)
209a -> 215a : 0.021054 (c= -0.14509828)
209a -> 216a : 0.408736 (c= 0.63932498)
209a -> 217a : 0.012458 (c= 0.11161747)
210a -> 212a : 0.043170 (c= -0.20777317)
210a -> 214a : 0.017853 (c= 0.13361370)
210a -> 215a : 0.016736 (c= 0.12936890)
210a -> 218a : 0.047031 (c= 0.21686604)
204b -> 207b : 0.025588 (c= 0.15996186)

STATE 13: E= 0.137850 au 3.751 eV 30254.5 cm**⁻¹ <S**2> = 9.751905

198a -> 212a : 0.010153 (c= -0.10076411)
208a -> 211a : 0.071246 (c= -0.26691965)
208a -> 213a : 0.015277 (c= 0.12360092)

208a -> 216a : 0.010275 (c= 0.10136634)
 209a -> 214a : 0.011778 (c= 0.10852700)
 209a -> 219a : 0.016411 (c= 0.12810369)
 210a -> 212a : 0.016407 (c= -0.12808816)
 210a -> 214a : 0.195297 (c= -0.44192441)
 210a -> 215a : 0.059754 (c= -0.24444641)
 210a -> 216a : 0.032383 (c= 0.17995381)
 210a -> 218a : 0.115476 (c= 0.33981815)
 194b -> 207b : 0.023450 (c= -0.15313276)
 201b -> 206b : 0.015117 (c= -0.12295018)
 201b -> 207b : 0.013582 (c= 0.11654007)
 203b -> 207b : 0.032771 (c= 0.18102719)
 205b -> 207b : 0.015196 (c= 0.12327030)
 205b -> 208b : 0.037708 (c= 0.19418644)
 205b -> 210b : 0.013873 (c= 0.11778414)

STATE 14: E= 0.138465 au 3.768 eV 30389.5 cm**⁻¹ <S**2> = 9.781963

197a -> 211a : 0.013367 (c= -0.11561548)
 198a -> 211a : 0.010259 (c= -0.10128635)
 207a -> 211a : 0.023944 (c= 0.15473892)
 208a -> 212a : 0.062948 (c= -0.25089425)
 209a -> 212a : 0.056187 (c= 0.23703842)
 209a -> 214a : 0.153087 (c= -0.39126329)
 209a -> 215a : 0.051404 (c= -0.22672523)
 209a -> 218a : 0.019722 (c= -0.14043568)
 210a -> 216a : 0.045993 (c= 0.21445902)
 210a -> 217a : 0.079104 (c= -0.28125426)
 210a -> 218a : 0.027277 (c= -0.16515650)
 210a -> 219a : 0.029072 (c= -0.17050466)
 194b -> 206b : 0.014644 (c= 0.12101431)
 194b -> 208b : 0.015046 (c= -0.12266108)
 201b -> 207b : 0.050377 (c= 0.22444807)
 202b -> 207b : 0.013474 (c= -0.11607791)
 204b -> 206b : 0.019545 (c= 0.13980515)
 204b -> 208b : 0.013868 (c= -0.11776082)
 205b -> 207b : 0.018509 (c= 0.13604951)

STATE 15: E= 0.138715 au 3.775 eV 30444.3 cm**⁻¹ <S**2> = 9.659082

197a -> 211a : 0.010981 (c= 0.10478978)
 208a -> 212a : 0.031563 (c= 0.17765872)
 208a -> 214a : 0.014351 (c= 0.11979399)
 208a -> 215a : 0.012276 (c= 0.11079583)
 209a -> 214a : 0.039586 (c= -0.19896326)
 209a -> 216a : 0.011025 (c= 0.10499967)
 209a -> 217a : 0.012918 (c= 0.11365686)
 209a -> 218a : 0.028252 (c= -0.16808292)
 210a -> 211a : 0.024504 (c= 0.15653811)
 210a -> 213a : 0.017672 (c= -0.13293563)
 210a -> 214a : 0.021909 (c= -0.14801584)
 210a -> 215a : 0.012374 (c= -0.11123701)
 210a -> 216a : 0.205820 (c= -0.45367360)
 210a -> 217a : 0.092227 (c= -0.30368834)
 210a -> 219a : 0.062093 (c= -0.24918562)
 194b -> 208b : 0.010610 (c= 0.10300277)

203b -> 206b : 0.027050 (c= 0.16446837)
203b -> 208b : 0.010114 (c= -0.10056624)
205b -> 206b : 0.016566 (c= -0.12871066)
205b -> 207b : 0.050471 (c= -0.22465694)

STATE 16: E= 0.139609 au 3.799 eV 30640.7 cm**⁻¹ <S**2> = 9.486102

207a -> 212a : 0.013024 (c= 0.11412131)
208a -> 211a : 0.022050 (c= -0.14849240)
209a -> 213a : 0.011476 (c= -0.10712491)
209a -> 215a : 0.017148 (c= 0.13095178)
209a -> 216a : 0.235798 (c= 0.48559067)
209a -> 217a : 0.118846 (c= -0.34474116)
210a -> 215a : 0.034911 (c= 0.18684371)
210a -> 217a : 0.026327 (c= 0.16225519)
210a -> 218a : 0.258089 (c= -0.50802479)

STATE 17: E= 0.139789 au 3.804 eV 30680.1 cm**⁻¹ <S**2> = 9.672542

205a -> 213a : 0.016860 (c= 0.12984527)
207a -> 214a : 0.018867 (c= 0.13735877)
207a -> 215a : 0.020739 (c= -0.14401151)
208a -> 213a : 0.021311 (c= -0.14598413)
209a -> 211a : 0.029559 (c= -0.17192774)
209a -> 213a : 0.038646 (c= -0.19658527)
209a -> 216a : 0.064183 (c= -0.25334440)
209a -> 217a : 0.060304 (c= -0.24556789)
209a -> 219a : 0.147668 (c= 0.38427612)
210a -> 214a : 0.025782 (c= -0.16056811)
210a -> 215a : 0.133982 (c= 0.36603530)
210a -> 218a : 0.011136 (c= 0.10552637)
201b -> 208b : 0.024694 (c= -0.15714344)
202b -> 206b : 0.034387 (c= -0.18543622)
204b -> 207b : 0.016807 (c= 0.12964151)
205b -> 206b : 0.023688 (c= 0.15390946)

STATE 18: E= 0.139907 au 3.807 eV 30706.1 cm**⁻¹ <S**2> = 9.840150

196a -> 213a : 0.023035 (c= -0.15177353)
197a -> 213a : 0.023405 (c= 0.15298801)
207a -> 211a : 0.026109 (c= 0.16158246)
207a -> 213a : 0.084784 (c= 0.29117619)
209a -> 214a : 0.069394 (c= -0.26342732)
209a -> 215a : 0.226737 (c= 0.47616960)
209a -> 216a : 0.015974 (c= -0.12638971)
209a -> 217a : 0.010906 (c= 0.10443348)
209a -> 220a : 0.016219 (c= 0.12735479)
210a -> 213a : 0.012249 (c= -0.11067646)
210a -> 218a : 0.012449 (c= 0.11157549)
192b -> 208b : 0.010379 (c= 0.10187835)
194b -> 206b : 0.030985 (c= 0.17602678)
194b -> 208b : 0.020399 (c= 0.14282344)
203b -> 206b : 0.020572 (c= 0.14342976)
203b -> 208b : 0.024850 (c= 0.15763942)
204b -> 206b : 0.046871 (c= -0.21649689)
204b -> 208b : 0.032327 (c= -0.17979710)

STATE 19: E= 0.144828 au 3.941 eV 31786.0 cm**⁻¹ <S**2> = 9.584921
189a -> 211a : 0.010224 (c= 0.10111152)
205a -> 212a : 0.034658 (c= 0.18616553)
207a -> 211a : 0.041840 (c= 0.20454949)
208a -> 214a : 0.014072 (c= 0.11862441)
209a -> 212a : 0.018790 (c= 0.13707700)
209a -> 214a : 0.012295 (c= -0.11088078)
209a -> 215a : 0.014415 (c= -0.12006276)
209a -> 218a : 0.021619 (c= 0.14703474)
210a -> 211a : 0.015159 (c= 0.12312119)
210a -> 217a : 0.442743 (c= 0.66538967)
210a -> 218a : 0.027205 (c= 0.16494067)
210a -> 221a : 0.011087 (c= 0.10529384)
202b -> 206b : 0.012294 (c= -0.11087936)
202b -> 207b : 0.026222 (c= -0.16193063)
204b -> 206b : 0.023541 (c= 0.15343044)
204b -> 208b : 0.023055 (c= -0.15183922)
205b -> 207b : 0.025886 (c= -0.16089266)

STATE 20: E= 0.145906 au 3.970 eV 32022.6 cm**⁻¹ <S**2> = 9.579615
205a -> 213a : 0.031036 (c= 0.17617022)
208a -> 211a : 0.022428 (c= -0.14976049)
209a -> 211a : 0.014214 (c= -0.11922186)
209a -> 216a : 0.024807 (c= -0.15750227)
209a -> 217a : 0.168261 (c= 0.41019585)
209a -> 219a : 0.140468 (c= -0.37479017)
210a -> 217a : 0.041044 (c= 0.20259217)
210a -> 218a : 0.150292 (c= -0.38767482)
210a -> 219a : 0.032384 (c= -0.17995466)
210a -> 220a : 0.020416 (c= 0.14288425)
201b -> 208b : 0.014190 (c= -0.11912010)
202b -> 206b : 0.032754 (c= -0.18098134)
203b -> 207b : 0.012557 (c= 0.11205763)
204b -> 207b : 0.021205 (c= 0.14562036)
205b -> 208b : 0.027871 (c= 0.16694658)

STATE 21: E= 0.146684 au 3.991 eV 32193.3 cm**⁻¹ <S**2> = 9.293119
209a -> 217a : 0.026190 (c= -0.16183295)
209a -> 219a : 0.013707 (c= 0.11707867)
209a -> 220a : 0.051565 (c= 0.22707957)
210a -> 217a : 0.059275 (c= 0.24346394)
210a -> 218a : 0.024267 (c= 0.15577768)
210a -> 219a : 0.665681 (c= -0.81589292)

STATE 22: E= 0.148582 au 4.043 eV 32609.9 cm**⁻¹ <S**2> = 9.323307
209a -> 216a : 0.015180 (c= -0.12320876)
209a -> 217a : 0.133216 (c= 0.36498782)
209a -> 218a : 0.180883 (c= -0.42530380)
209a -> 219a : 0.303823 (c= 0.55120150)
209a -> 221a : 0.019058 (c= -0.13804955)
210a -> 217a : 0.094073 (c= 0.30671337)
210a -> 218a : 0.038172 (c= -0.19537741)
210a -> 220a : 0.010615 (c= -0.10302855)
210a -> 221a : 0.020994 (c= 0.14489393)

STATE 23: E= 0.149141 au 4.058 eV 32732.7 cm**⁻¹ <S**2> = 9.300261
 209a -> 216a : 0.012109 (c= -0.11003884)
 209a -> 217a : 0.013833 (c= 0.11761419)
 209a -> 218a : 0.526817 (c= 0.72582143)
 209a -> 219a : 0.152250 (c= 0.39019220)
 209a -> 222a : 0.014268 (c= -0.11944872)
 210a -> 217a : 0.011006 (c= -0.10491030)
 210a -> 218a : 0.056662 (c= -0.23803881)
 210a -> 222a : 0.054563 (c= -0.23358648)

STATE 24: E= 0.149533 au 4.069 eV 32818.7 cm**⁻¹ <S**2> = 9.625900
 205a -> 211a : 0.059826 (c= -0.24459362)
 207a -> 212a : 0.056718 (c= -0.23815477)
 208a -> 213a : 0.023589 (c= 0.15358595)
 208a -> 216a : 0.024069 (c= 0.15514138)
 209a -> 213a : 0.031707 (c= 0.17806547)
 209a -> 216a : 0.048638 (c= -0.22054099)
 209a -> 217a : 0.228009 (c= -0.47750260)
 209a -> 221a : 0.021574 (c= 0.14687959)
 210a -> 212a : 0.028820 (c= -0.16976576)
 210a -> 215a : 0.047668 (c= -0.21833088)
 210a -> 218a : 0.065560 (c= -0.25604784)
 210a -> 220a : 0.031205 (c= -0.17665078)
 202b -> 208b : 0.024430 (c= 0.15630243)
 204b -> 207b : 0.024620 (c= 0.15690739)
 205b -> 206b : 0.018417 (c= -0.13570784)

 ABSORPTION SPECTRUM VIA TRANSITION ELECTRIC DIPOLE MOMENTS

State	Energy (cm ⁻¹)	Wavelength (nm)	fosc	T2 (au**2)	TX (au)	TY (au)	TZ (au)
1	22843.0	437.8	0.090156067	1.29932	-0.97610	-0.15999	0.56653
2	23242.4	430.2	0.066664030	0.94425	-0.52118	0.09589	-0.81451
3	23886.8	418.6	0.007933201	0.10934	-0.08621	-0.31590	0.04597
4	24109.3	414.8	0.009789405	0.13367	-0.24637	0.12393	0.24003
5	24230.8	412.7	0.007334245	0.09965	0.25243	-0.18775	-0.02601
6	24349.2	410.7	0.006481930	0.08764	0.12863	-0.08768	0.25180
7	26066.5	383.6	0.009359540	0.11821	0.17119	-0.05179	0.29363
8	26367.9	379.2	0.008699878	0.10862	0.27080	0.02612	-0.18602
9	26531.4	376.9	0.018109963	0.22472	0.04251	0.46652	0.07260
10	27524.2	363.3	0.000083229	0.00100	0.02739	0.01098	0.01118
11	27953.3	357.7	0.000263888	0.00311	-0.02357	-0.04127	-0.02914
12	28095.6	355.9	0.000695486	0.00815	0.02306	-0.05073	0.07102
13	30254.5	330.5	0.031208298	0.33959	0.14475	-0.23423	0.51359
14	30389.5	329.1	0.034665422	0.37553	0.37168	-0.35647	-0.33214
15	30444.3	328.5	0.043254026	0.46773	0.58155	0.35922	-0.02215
16	30640.7	326.4	0.003342492	0.03591	0.07531	0.00016	0.17390
17	30680.1	325.9	0.022898206	0.24571	0.29227	0.00396	0.40034
18	30706.1	325.7	0.014880147	0.15954	0.13143	0.32949	-0.18357
19	31786.0	314.6	0.064801363	0.67116	0.75192	0.06341	-0.31899
20	32022.6	312.3	0.039793503	0.40910	0.10826	-0.10681	0.62127

21	32193.3	310.6	0.011986543	0.12258	-0.33855	-0.01580	0.08782
22	32609.9	306.7	0.007705949	0.07780	-0.23640	0.04030	-0.14242
23	32732.7	305.5	0.001805096	0.01815	-0.06453	0.01285	-0.11758
24	32818.7	304.7	0.001363823	0.01368	0.02724	-0.01657	0.11254

 ABSORPTION SPECTRUM VIA TRANSITION VELOCITY DIPOLE MOMENTS

State	Energy (cm-1)	Wavelength (nm)	fosc	P2 (au**2)	PX (au)	PY (au)	PZ (au)
1	22843.0	437.8	0.008476076	0.00132	0.02935	0.01325	-0.01691
2	23242.4	430.2	0.002299685	0.00037	0.01154	-0.00238	0.01505
3	23886.8	418.6	0.001000421	0.00016	-0.01107	0.00475	0.00428
4	24109.3	414.8	0.001130921	0.00019	0.00067	-0.00161	0.01354
5	24230.8	412.7	0.000976227	0.00016	0.01007	-0.00125	0.00766
6	24349.2	410.7	0.000708737	0.00012	0.00573	-0.00354	0.00852
7	26066.5	383.6	0.001127818	0.00020	-0.00800	0.00211	-0.01151
8	26367.9	379.2	0.001408856	0.00025	-0.01345	-0.00323	0.00791
9	26531.4	376.9	0.000332636	0.00006	-0.00592	0.00313	0.00394
10	27524.2	363.3	0.000632514	0.00012	0.00390	-0.00149	0.01008
11	27953.3	357.7	0.001533621	0.00029	-0.01529	-0.00185	0.00746
12	28095.6	355.9	0.000271312	0.00005	-0.00500	-0.00068	0.00516
13	30254.5	330.5	0.000679090	0.00014	0.00482	0.00562	-0.00925
14	30389.5	329.1	0.000600785	0.00012	-0.00864	0.00258	0.00659
15	30444.3	328.5	0.006324021	0.00132	-0.03102	-0.01545	0.01071
16	30640.7	326.4	0.000106911	0.00002	0.00460	-0.00099	-0.00053
17	30680.1	325.9	0.004093022	0.00086	-0.01422	0.00213	-0.02552
18	30706.1	325.7	0.000484282	0.00010	0.00603	-0.00781	0.00207
19	31786.0	314.6	0.021473065	0.00466	-0.06247	-0.00482	0.02719
20	32022.6	312.3	0.011846973	0.00259	-0.00769	0.01265	-0.04872
21	32193.3	310.6	0.004677839	0.00103	0.02988	0.00979	-0.00638
22	32609.9	306.7	0.002485504	0.00055	0.01927	0.00626	0.01197
23	32732.7	305.5	0.000568203	0.00013	0.00376	-0.00826	0.00668
24	32818.7	304.7	0.001129059	0.00025	-0.00547	0.00412	-0.01437