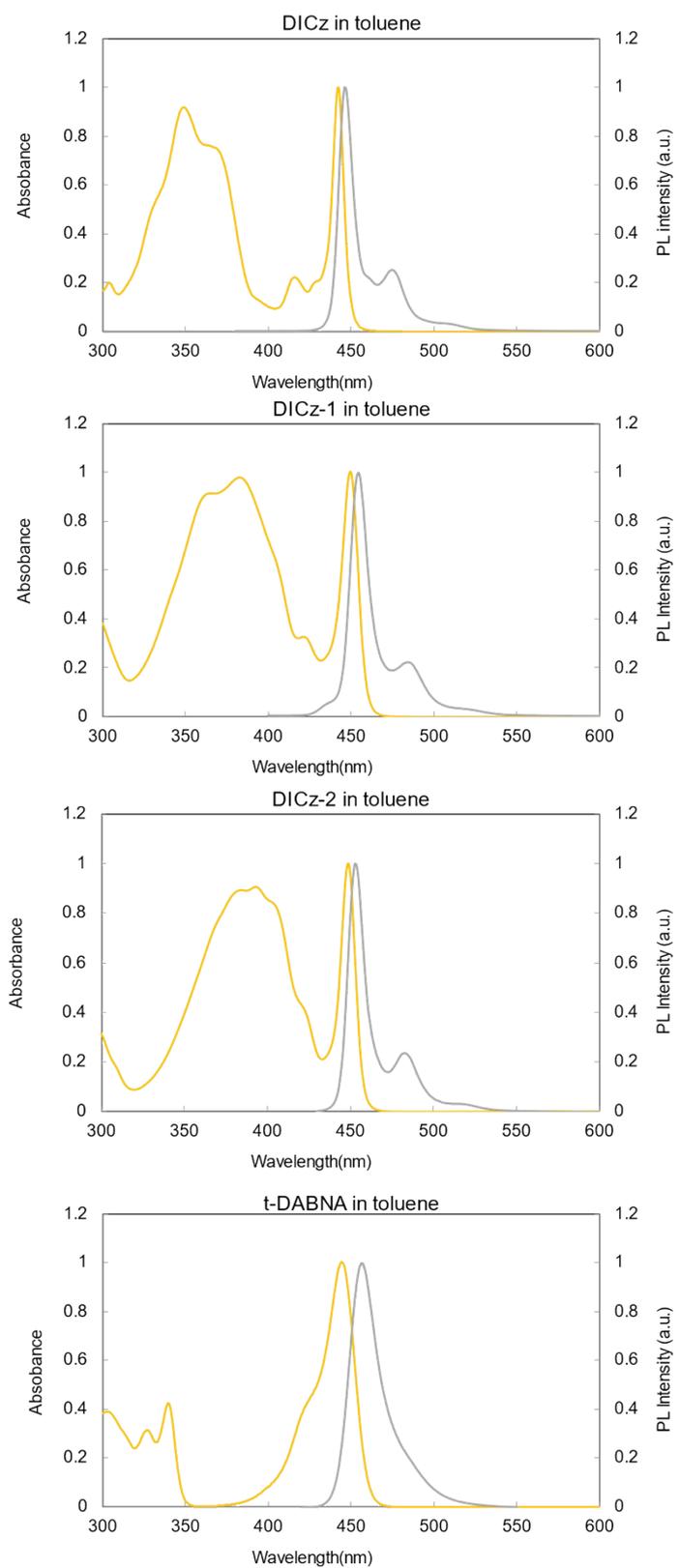


## Supplementary Information

### **Stable Pure-Blue Phosphor-Sensitized OLEDs Utilizing a Hypsochromic-Shifting Non-TADF Fluorescent Emitter**

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**Fig. S1.** Room temperature absorption (yellow) and fluorescence (gray) spectra of emitters in toluene.

## Spectral overlap integral and Förster radius calculation

$$k_{FRET} = \frac{1}{\tau_D} \left( \frac{R_{FRET}}{r} \right)^6 = \frac{1}{\tau_D r^6} \frac{9000 \ln(10) \kappa^2 \Phi_D}{128 \pi^5 N_A n^4} J \quad (1)$$

$$J = \int_0^{\infty} \varepsilon_A(\lambda) \cdot \lambda^4 \cdot Em_D(\lambda) \cdot d\lambda \quad (2)$$

$k_{FRET}$ : Förster resonance energy transfer (FRET) rate

$R_{FRET}$ : Förster radius

$\tau_D$ : Energy donor emission lifetime

$\kappa$ : Orientation factor (assumed: 2/3)

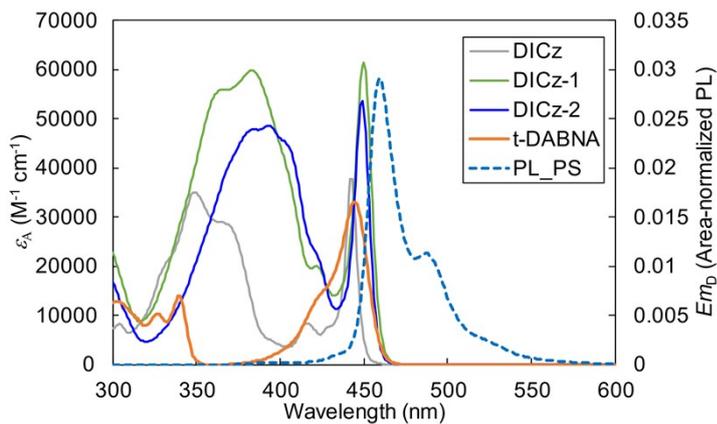
$\Phi_D$ : Fluorescence quantum yield of energy donor (assumed: 0.80)

$n$ : Refractive index of solvent (assumed: 1.5 for toluene)

$J$ : Spectral overlap integral

$\varepsilon_A(\lambda)$ : Molar extinction spectrum of the acceptor

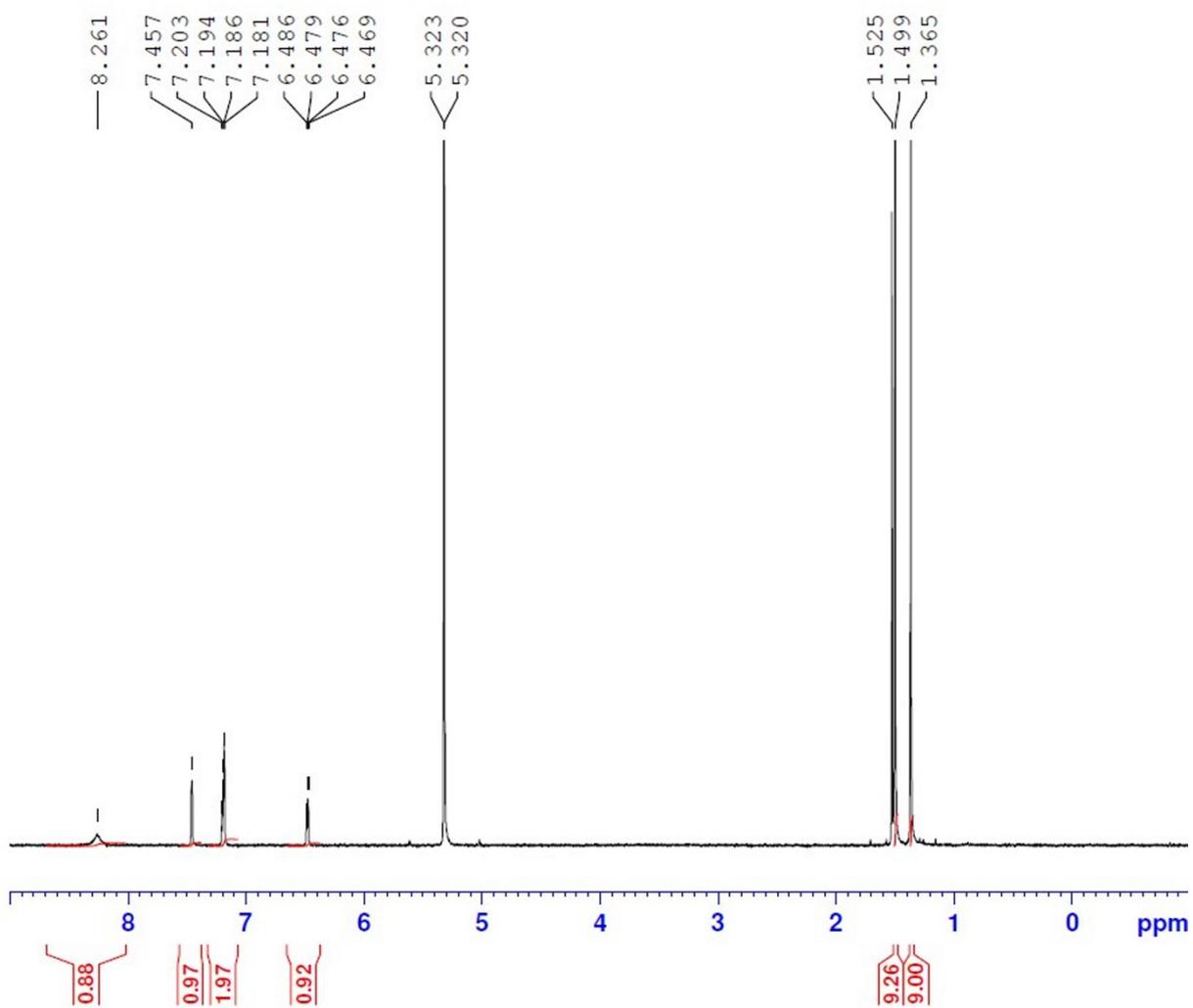
$Em_D(\lambda)$ : Area-normalized donor emission spectrum



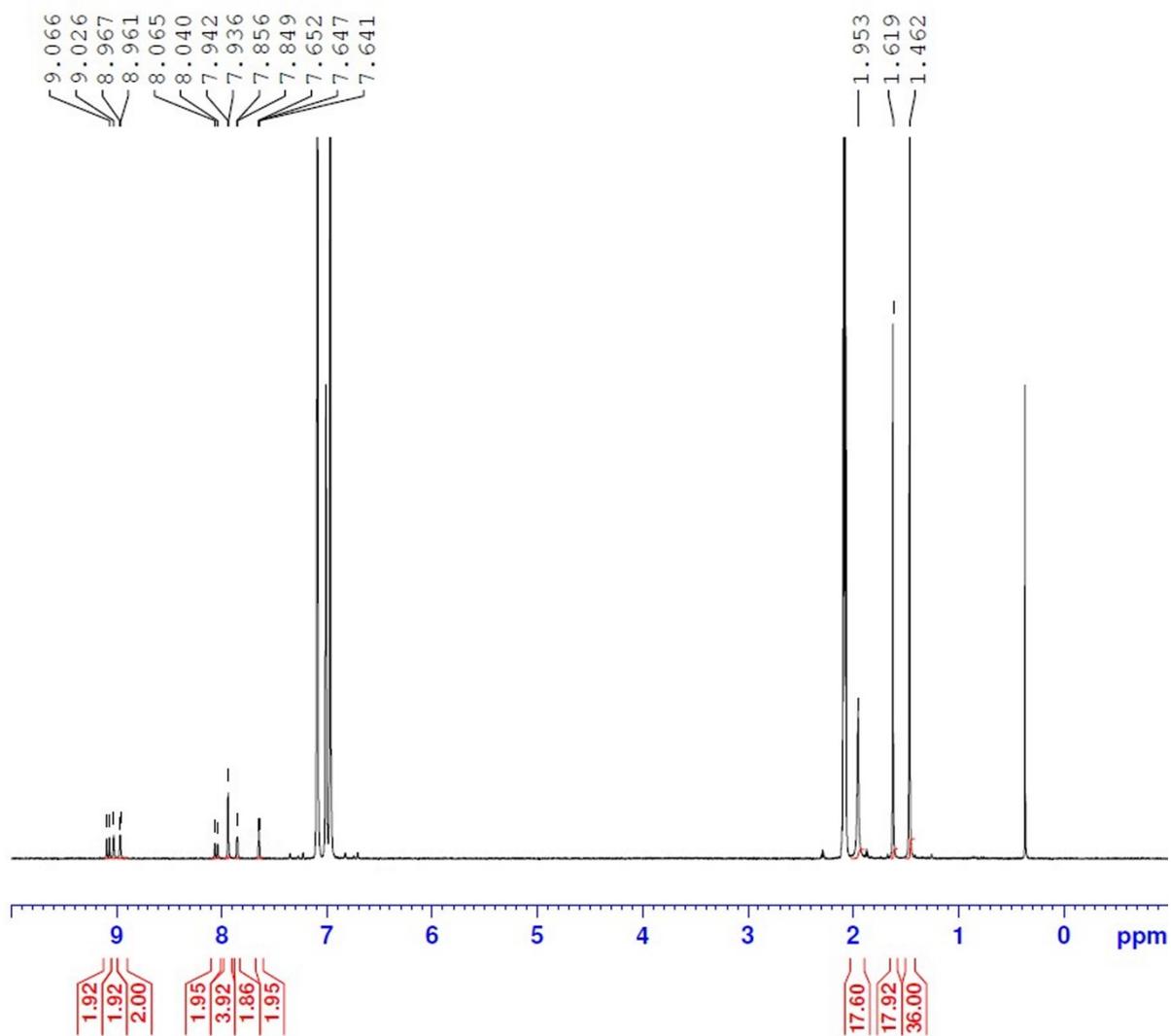
**Fig. S2.** Molar extinction spectra of emitters and area-normalized emission spectrum of PS (PtON-TBBI) in toluene.

**Table S1.** Calculated spectral overlap integrals ( $J$ ) and Förster radii ( $R_{FRET}$ ) of emitters

Emitter	$J$ $10^{14} \text{ M}^{-1} \text{ cm}^{-1} \text{ nm}^4$	$R_{FRET}$ nm
DICz	0.52	2.6
DICz-1	3.99	3.7
DICz-2	2.78	3.5
t-DABNA	1.86	3.2



**Fig. S3.**  $^1\text{H}$ -NMR spectrum of 5,7-di-tert-butylindole in  $\text{CD}_2\text{Cl}_2$ .



**Fig. S4.** <sup>1</sup>H-NMR spectrum of DICz-2 in toluene-d<sub>8</sub>.

**Table S2.** Cartesian coordinates of the  $S_0$ ,  $S_1$ , and  $T_1$  optimized geometries of emitters by  $\Delta$ SCF method.

DICz, $S_0$		N -2.6042714230 -0.0000005649 -0.0000011169
C 1.8779456534 -2.1689314685 -0.0000012126	C 0.7108946006 -1.3158042770 0.0000004757	C 1.2526270515 -0.0000000487 -0.0000000100
C 2.0446315497 -3.5563930132 0.0000046055	C 0.7108933409 1.3158052792 0.0000009736	C -0.7108946006 1.3158042770 0.0000004757
C 3.3310729385 -4.0945447434 0.0000085664	C -1.2526270515 0.0000000487 -0.0000000100	C -0.7108933409 -1.3158052792 0.0000009736
C 4.4588006290 -3.2619908751 0.0000075282	C -3.0488479315 -1.3436194751 0.0000009071	C 3.0488479315 1.3436194751 0.0000009071
C 3.0500036687 -1.3342642581 -0.0000017528	C -4.3317446574 -1.8577415034 -0.0000008975	C -4.4791419089 -3.2560821310 -0.0000024936
C 4.3334285763 -1.8715298527 0.0000028251	C -3.3563137125 -4.0895310150 -0.0000024492	C -2.0587874668 -3.5667007564 -0.0000006765
N 2.6251915088 -0.0000015837 -0.0000032795	C -1.8722260358 -2.1778608518 0.0000010879	C 4.3317446574 1.8577415034 -0.0000008975
C -1.8779456074 2.1689313796 0.0000001382	C 4.4791419089 3.2560821310 -0.0000024936	C 3.3563137125 4.0895310150 -0.0000024492
C -2.0446314868 3.5563929324 -0.0000017849	C 2.0587874668 3.5667007564 -0.0000006765	C 1.8722260358 2.1778608518 0.0000010879
C -3.3310728329 4.0945447364 -0.0000021701	C 1.2032890168 -4.2345311730 0.0000003599	H 1.2032890168 -4.2345311730 0.0000003599
C -4.4588005250 3.2619908950 0.0000001667	H 3.4926063833 -5.1668555483 0.0000006582	H 3.4926063833 -5.1668555483 0.0000006582
C -3.0500036682 1.3342641496 0.0000018694	H 5.4749100437 -3.6866169372 0.0000009735	H 5.4749100437 -3.6866169372 0.0000009735
C -4.3334285219 1.8715298796 0.0000030399	H 5.2009042286 -1.2090997321 -0.0000004071	H 5.2009042286 -1.2090997321 -0.0000004071
N -2.6251915602 0.0000015606 0.0000083507	H -1.2032890168 4.2345311730 0.0000003599	H -1.2032890168 4.2345311730 0.0000003599
C 0.7072063414 -1.2940671658 0.0000006446	H -3.4926063833 5.1668555483 0.0000006582	H -3.4926063833 5.1668555483 0.0000006582
C 1.2532389154 -0.0000007797 -0.0000005963	H -5.4749100437 3.6866169372 0.0000009735	H -5.4749100437 3.6866169372 0.0000009735
C 0.7072079787 1.2940662433 0.0000021277	H -5.2009029683 -1.2091056386 -0.0000009298	H -5.2009029683 -1.2091056386 -0.0000009298
C -0.7072063972 1.2940670435 0.0000048716	H -5.4749054969 -3.6866224709 -0.0000035883	H -5.4749054969 -3.6866224709 -0.0000035883
C -1.2532389874 0.0000007218 0.0000090940	H -3.4925993016 -5.1668590832 -0.0000036321	H -3.4925993016 -5.1668590832 -0.0000036321
C -0.7072079924 -1.2940663574 0.0000056473	H -1.2032834194 -4.2345313316 -0.0000006008	H -1.2032834194 -4.2345313316 -0.0000006008
C -3.0500052679 -1.3342607193 0.0000019143	H 5.2009029683 1.2091056386 -0.0000009298	H 5.2009029683 1.2091056386 -0.0000009298
C 3.0500052554 1.3342605122 -0.0000022491	H 5.4749054969 3.6866224709 -0.0000035883	H 5.4749054969 3.6866224709 -0.0000035883
C -4.3334309834 -1.8715245496 -0.0000071946	H -3.4925993016 -5.1668590832 -0.0000036321	H -3.4925993016 -5.1668590832 -0.0000036321
C -4.4588048168 -3.2619853624 -0.0000161943	H -1.2032834194 -4.2345313316 -0.0000006008	H -1.2032834194 -4.2345313316 -0.0000006008
C -3.3310781010 -4.0945406648 -0.0000161265	H 5.2009029683 1.2091056386 -0.0000009298	H 5.2009029683 1.2091056386 -0.0000009298
C -2.0446360923 -3.5563906104 -0.0000069185	H 5.4749054969 3.6866224709 -0.0000035883	H 5.4749054969 3.6866224709 -0.0000035883
C -1.8779483927 -2.1689291935 0.0000025010	H 3.4925993016 5.1668590832 -0.0000036321	H 3.4925993016 5.1668590832 -0.0000036321
C 4.3334309004 1.8715244849 -0.0000098315	H 1.2032834194 4.2345313316 -0.0000006008	H 1.2032834194 4.2345313316 -0.0000006008
C 4.4588046636 3.2619853390 -0.0000110977	DICz, $T_1$	
C 3.3310780082 4.0945406166 -0.0000062179	C 1.8709556590 -2.1790841719 0.0000062485	C 1.8709556590 -2.1790841719 0.0000062485
C 2.0446359837 3.5563905143 -0.0000009566	C 2.0566024737 -3.5683416780 0.0000187832	C 2.0566024737 -3.5683416780 0.0000187832
C 1.8779483243 2.1689291118 0.0000020518	C 3.3532389905 -4.0904400241 0.0000300869	C 3.3532389905 -4.0904400241 0.0000300869
H 1.1788114537 -4.2110198234 0.0000060877	C 4.4757199137 -3.2564792926 0.0000292511	C 4.4757199137 -3.2564792926 0.0000292511
H 3.4614859275 -5.1721830967 0.0000130486	C 3.0464449032 -1.3452060264 0.0000037046	C 3.0464449032 -1.3452060264 0.0000037046
H 5.4506783219 -3.7035758166 0.0000114352	C 4.3288653643 -1.8583490404 0.0000159032	C 4.3288653643 -1.8583490404 0.0000159032
H 5.2107396766 -1.2340922203 0.0000027017	N 2.6012292703 0.0000072409 -0.0000032046	N 2.6012292703 0.0000072409 -0.0000032046
H -1.1788113683 4.2110197161 -0.0000030077	C -1.8709557446 2.1790844115 0.0000083791	C -1.8709557446 2.1790844115 0.0000083791
H -3.4614858031 5.1721831463 -0.0000038903	C -2.0566027821 3.5683419392 0.0000143466	C -2.0566027821 3.5683419392 0.0000143466
H -5.4506782177 3.7035758380 0.0000008500	C -3.3532394527 4.0904399446 0.0000226516	C -3.3532394527 4.0904399446 0.0000226516
H -5.2107397350 1.2340923215 0.0000061478	C -4.4757202502 3.2564790162 0.0000255894	C -4.4757202502 3.2564790162 0.0000255894
H -5.2107410816 -1.2340855803 -0.0000076833	C -3.0464448693 1.3452061767 0.0000093760	C -3.0464448693 1.3452061767 0.0000093760
H -5.4506829958 -3.7035692513 -0.0000239997	C -4.3288654161 1.8583488493 0.0000191380	C -4.3288654161 1.8583488493 0.0000191380
H -3.4614925969 -5.1721788274 -0.0000237394	N -2.6012293090 -0.0000071071 0.0000068460	N -2.6012293090 -0.0000071071 0.0000068460
H -1.1788168142 -4.2110184440 -0.0000076118	C 0.71113147922 -1.3193112190 0.0000023103	C 0.71113147922 -1.3193112190 0.0000023103
H 5.2107412092 1.2340857259 -0.0000140138	C 1.2537190329 -0.0000023047 -0.0000008387	C 1.2537190329 -0.0000023047 -0.0000008387
H 5.4506829000 3.7035691173 -0.0000168552	C 0.7112982081 1.3193176853 -0.0000001745	C 0.7112982081 1.3193176853 -0.0000001745
H 3.4614924205 5.1721787720 -0.0000074321	C -0.71113148017 1.3193113798 0.0000058260	C -0.71113148017 1.3193113798 0.0000058260
H 1.1788166411 4.2110183284 0.0000028846	C -1.2537190802 0.0000024785 0.0000068617	C -1.2537190802 0.0000024785 0.0000068617
DICz, $S_1$		C -0.7112982237 -1.3193174472 0.0000025401
C 1.8722289562 -2.1778600184 -0.0000002346	C -3.0464285174 -1.3452331620 -0.0000032768	C -3.0464285174 -1.3452331620 -0.0000032768
C 2.0587921522 -3.5666993923 0.0000002378	C 3.0464284438 1.3452332140 -0.0000080286	C 3.0464284438 1.3452332140 -0.0000080286
C 3.3563187634 -4.0895277893 0.0000004819	C -4.3288381560 -1.8583901752 -0.0000177714	C -4.3288381560 -1.8583901752 -0.0000177714
C 4.4791462816 -3.2560768884 0.0000006079	C -4.4756766466 -3.2565283637 -0.0000332373	C -4.4756766466 -3.2565283637 -0.0000332373
C 3.0488491368 -1.3436164785 -0.0000007078	C -3.3531880135 -4.0904739024 -0.0000336806	C -3.3531880135 -4.0904739024 -0.0000336806
C 4.3317473518 -1.8577376216 -0.0000001500	C -2.0565568909 -3.5683579758 -0.0000195828	C -2.0565568909 -3.5683579758 -0.0000195828
N 2.6042714230 0.0000005649 -0.0000011169	C -1.8709278479 -2.1790967825 -0.0000049539	C -1.8709278479 -2.1790967825 -0.0000049539
C -1.8722289562 2.1778600184 -0.0000002346		
C -2.0587921522 3.5666993923 0.0000002378		
C -3.3563187634 4.0895277893 0.0000004819		
C -4.4791462816 3.2560768884 0.0000006079		
C -3.0488491368 1.3436164785 -0.0000007078		
C -4.3317473518 1.8577376216 -0.0000001500		

C 4.3288382099 1.8583898578 -0.0000217065  
C 4.4756770804 3.2565279123 -0.0000306555  
C 3.3531885226 4.0904736784 -0.0000264852  
C 2.0565572669 3.5683581685 -0.0000143047  
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H 3.4898303721 -5.1675629404 0.0000400643  
H 5.4715966135 -3.6871755226 0.0000392777  
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H -1.2001151269 4.2347965615 0.0000125001  
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H -5.4715490175 -3.6872346912 -0.0000447118  
H -3.4897651411 -5.1675982303 -0.0000452738  
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DICz-1, S<sub>0</sub>

C 1.0813066269 0.6337466390 -0.0190714590  
C -0.0435327841 1.4742659595 -0.0203325740  
C -1.2645182585 0.7595779121 -0.0205616338  
C -1.0813342419 -0.6335745265 -0.0190708277  
C 0.0435059011 -1.4740942394 -0.0201692580  
C 1.2644908213 -0.7594061700 -0.0203954963  
N 2.2651402756 1.3271804151 -0.0180701083  
C 1.9574954622 2.6930988410 -0.0198153682  
C 0.5242478710 2.8209191801 -0.0212122025  
N -2.2651679559 -1.3270085494 -0.0180744581  
C -1.9575225716 -2.6929268886 -0.0196568568  
C -0.5242749317 -2.8207473907 -0.0209405648  
C 2.7934220315 3.8052945413 -0.0198632797  
C 2.1987172750 5.0684433699 -0.0215853424  
C 0.8048159915 5.2169242947 -0.0230951952  
C -0.0333207761 4.1023303995 -0.0227716487  
C -2.7934487172 -3.8051229178 -0.0196531747  
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C -4.6814035044 -0.5796986545 -0.0145322178  
C -3.3060396967 -0.3895614330 -0.0218618924  
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C 7.6059961030 0.6383184726 -0.7554734674  
C 8.9937368059 0.8190065401 -0.7597967847  
C 9.7711395943 -0.0526949678 0.0165524215  
C 9.2040707220 -1.0806599104 0.7839226558  
C 7.8122287179 -1.2242972639 0.7599834755  
C -7.6059908968 -0.6382727058 -0.7558034424  
C -8.9937333378 -0.8190009977 -0.7601318047  
C -9.7711521832 0.0526704571 0.0162289227  
C -9.2041221323 1.0808215660 0.7833874965  
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H 3.8725413496 3.6984384865 -0.0182223194  
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H -5.6035852659 2.6998190928 -0.0392769935  
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H -6.9763438799 -1.2758163662 -1.3684462282  
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C 11.1463632178 2.0018968857 -1.4926746626  
H 11.5334116477 2.8179361373 -2.1113276841  
H 11.4673236325 2.1883513533 -0.4625939809  
H 11.6189696871 1.0761137549 -1.8364491613  
C 9.0437204410 3.3084550008 -1.1587645475  
H 7.9560075706 3.3529564980 -1.2659993739  
H 9.2840981686 3.5014385218 -0.1081186828  
H 9.4701072835 4.1195517579 -1.7597298710  
C 9.2566165830 1.7129351386 -3.1026355007  
H 9.6519318804 0.7547545009 -3.4551812327  
H 8.1752758571 1.7075154179 -3.2671497765  
H 9.6846661367 2.5070778699 -3.7248302749  
C 10.0521080534 -2.0339780195 1.6495100728  
C 9.6385756817 -1.8863835239 3.1330786540  
H 8.5822053721 -2.1242808268 3.2872578970  
H 10.2280898533 -2.5624554458 3.7626896005  
H 9.8044656992 -0.8630645278 3.4853208553  
C 11.5611260256 -1.7437545384 1.5431250413  
H 11.9274710955 -1.8568120403 0.5175466605  
H 11.8080567982 -0.7336428524 1.8857257972  
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H 10.4037779077 -4.1854042944 1.8036693653  
H 8.7611622552 -3.7818281057 1.2899504580  
H 10.1014647189 -3.6292731836 0.1472966211  
C -10.0521943029 2.0343511575 1.6486925551  
C -9.6380885804 1.8879759327 3.1322146402  
H -8.5817527486 2.1263504410 3.2858997848  
H -10.2276089588 2.5643387402 3.7615050204  
H -9.8035337647 0.8648745286 3.4852929966  
C -9.8125948514 3.4932251976 1.1924338569  
H -10.1027015188 3.6285951664 0.1453898421  
H -10.4044106133 4.1858134745 1.8015089212  
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H -12.1160610652 2.4482652450 2.1706038153  
C -9.6118735984 -1.9439011207 -1.6143808959  
C -9.0410427708 -3.3082518527 -1.1600326849  
H -9.4668922973 -4.1196955513 -1.7609097820  
H -7.9533753798 -3.3509690136 -1.2685550382  
H -9.2798643551 -3.5021445302 -0.1091964624  
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