

Laplace Transform Definitions (1B)

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```
(%i27) es1:parametric(%e^(-0.05*t)*sin(t), t, %e^(-0.05*t)*cos(t), t, 0, 18);
```

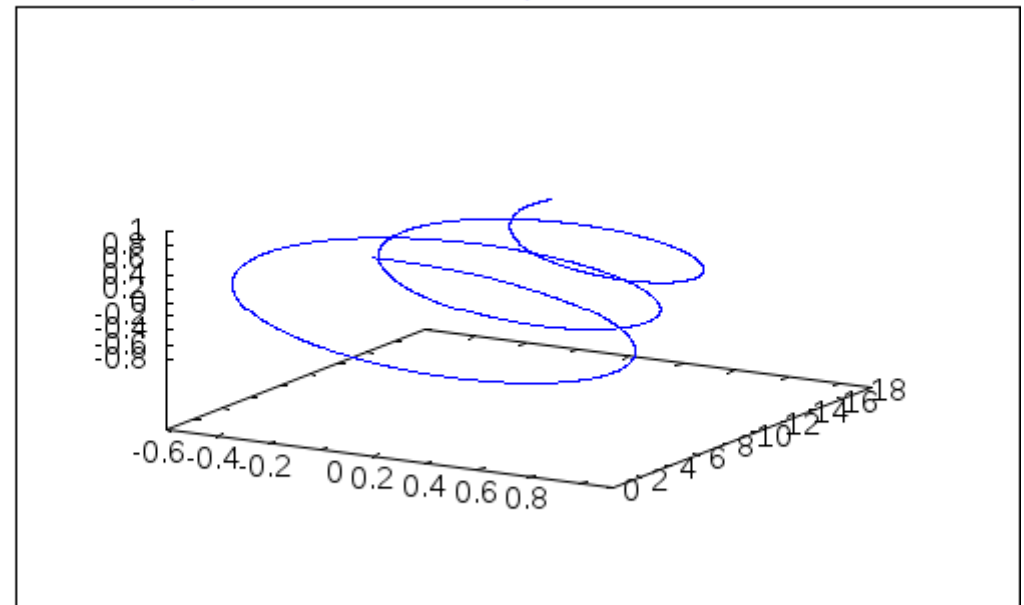
```
(%o27) parametric(%e-0.05 t sin(t), t, %e-0.05 t cos(t), t, 0, 18)
```

$s_{-1} = -1+i$ $s_0 = +i$ $s_1 = 1+i$

$\bar{s}_{-1} = -1-i$ $\bar{s}_0 = -i$ $\bar{s}_1 = 1-i$

```
(%i28) wxdraw3d(nticks=2000, es1);
```

```
(%t28)
```



```
(%o28)
```


References

- [1] <http://en.wikipedia.org/>
- [2] <http://planetmath.org/>
- [3] M.L. Boas, “Mathematical Methods in the Physical Sciences”
- [4] E. Kreyszig, “Advanced Engineering Mathematics”
- [5] D. G. Zill, W. S. Wright, “Advanced Engineering Mathematics”
- [6] T. J. Cavicchi, “Digital Signal Processing”
- [7] F. Waleffe, Math 321 Notes, UW 2012/12/11
- [8] J. Nearing, University of Miami
- [9] <http://scipp.ucsc.edu/~haber/ph116A/ComplexFunBranchTheory.pdf>
- [10] W. Haager, http://www.austromath.at/daten/maxima/zusatz/Graphics_with_Maxima.pdf