Ph3 Set 5

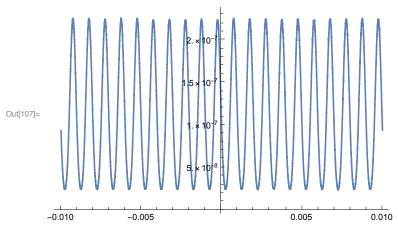
Jacob Snyder

5/8/19

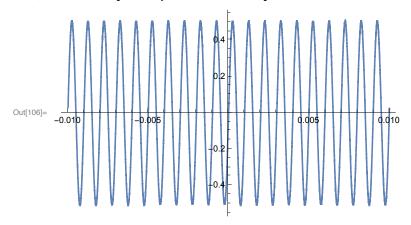
```
In[90]:= data = Import["~/Downloads/getwfm.isf"]
      data2 = Most[data]
        \{\{-0.01, 0.028\}, \{-0.009998, 0.032\}, \{-0.009996, 0.036\}, \{-0.009994, 0.04\},
         \{-0.009992, 0.056\}, \{-0.00999, 0.064\}, \{-0.009988, 0.064\}, \{-0.009986, 0.072\},
         \cdots 9985 \cdots , {0.009986, -0.012}, {0.009988, -0.012}, {0.00999, 0},
Out[90]=
         \{0.009992, 0\}, \{0.009994, 0.008\}, \{0.009996, 0.02\}, \{0.009998, 0.024\}, \{\}\}
                                                        set size limit...
        large output
                     show less
                                 show more
                                              show all
        \{\{-0.01, 0.028\}, \{-0.009998, 0.032\}, \{-0.009996, 0.036\}, \{-0.009994, 0.04\},
         \{-0.009992, 0.056\}, \{-0.00999, 0.064\}, \{-0.009988, 0.064\}, \{-0.009986, 0.072\},
         [...9985...], \{0.009986, -0.012\}, \{0.009988, -0.012\}, \{0.00999, 0\},
Out[91]=
         \{0.009992, 0\}, \{0.009994, 0.008\}, \{0.009996, 0.02\}, \{0.009998, 0.024\}\}
                     show less
                                 show more
                                              show all
                                                        set size limit...
        large output
In[92]:= data2 = Table[data[[i]], {i, Length[data] - 1}]
        \{\{-0.01, 0.028\}, \{-0.009998, 0.032\}, \{-0.009996, 0.036\}, \{-0.009994, 0.04\},
         \{-0.009992, 0.056\}, \{-0.00999, 0.064\}, \{-0.009988, 0.064\}, \{-0.009986, 0.072\},
         [...9985...], {0.009986, -0.012}, {0.009988, -0.012}, {0.00999, 0},
Out[92]=
         \{0.009992, 0\}, \{0.009994, 0.008\}, \{0.009996, 0.02\}, \{0.009998, 0.024\}\}
                                              show all
                                                        set size limit...
        large output
                     show less
                                 show more
In[95]:= nn = Length@data2;
     w[n_] := 0.5 * (1 - Cos[2 * Pi * (n - 1) / nn])
```

```
 \left\{ \left\{ -0.01, \, 9.32464 \times 10^{-8} \right\}, \, \left\{ -0.009998, \, 9.24806 \times 10^{-8} \right\}, \, \left\{ -0.009996, \, 9.17178 \times 10^{-8} \right\}, \\ \left\{ -0.009994, \, 9.09583 \times 10^{-8} \right\}, \, \dots \, 9992 \dots, \, \left\{ 0.009992, \, 9.8696 \times 10^{-8} \right\}, \\ \left\{ 0.009994, \, 9.71232 \times 10^{-8} \right\}, \, \left\{ 0.009996, \, 9.47877 \times 10^{-8} \right\}, \, \left\{ 0.009998, \, 9.40155 \times 10^{-8} \right\} \right\}  large output show less show more show all set size limit...
```

ln[107]:= windplot = ListPlot[newdata, Joined \rightarrow True]



In[106]:= ListPlot[data2, Joined → True]



In[108]:= Export["~/Desktop/Hann.pdf", windplot, "PDF"]

Out[108]= ~/Desktop/Hann.pdf

In[110]:= Export["~/Desktop/Hann.txt", newdata]

Out[110]= ~/Desktop/Hann.txt