## Gas Phase Complexes of H<sub>3</sub>N···CuF and H<sub>3</sub>N···CuI Studied by Rotational

## Spectroscopy and Ab Initio Calculations: The Effect of X (X = F, Cl, Br, I)

## in OC…CuX and H<sub>3</sub>N…CuX

Dror M. Bittner, Susanna L. Stephens, Daniel P. Zaleski, David P. Tew,

Nicholas R. Walker\* and Anthony C. Legon\*

## Supplementary Information: High Resolution Fourier Transform Window Function

The program code used to apply the high resolution Fourier transform window function is shown below (as Python script).

def f1(x):

```
return (1/(numpy.exp(1/x)-1))
```

def f2(x): return (1/x\*\*4.5)

def f(x):

return f1(x)\*f2(x)

```
def high_res_window(Npoints):
x = numpy.arange(0,1,1./(Npoints))
y = f(x)
y[0] = 0
maximum = max(y)
y = y/maximum
plateau_start = numpy.argwhere(y == max(y))
y[plateau_start:Npoints] = max(y)
return y
```