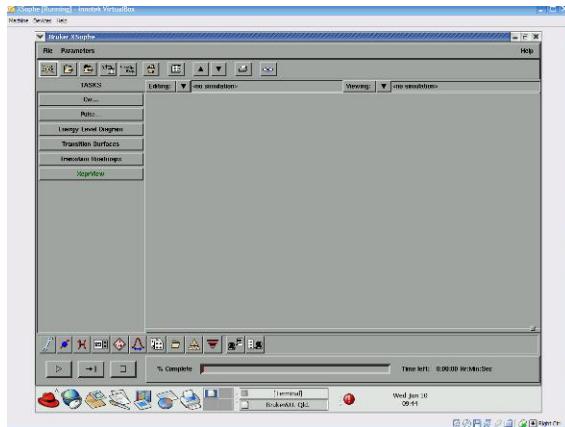
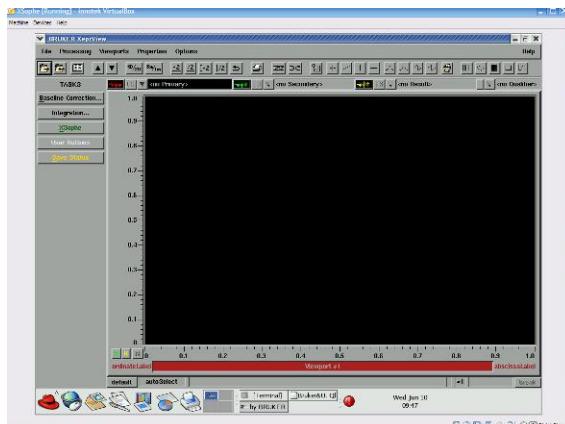


Tutorial on Simulation Program XSophe version 1.1.4

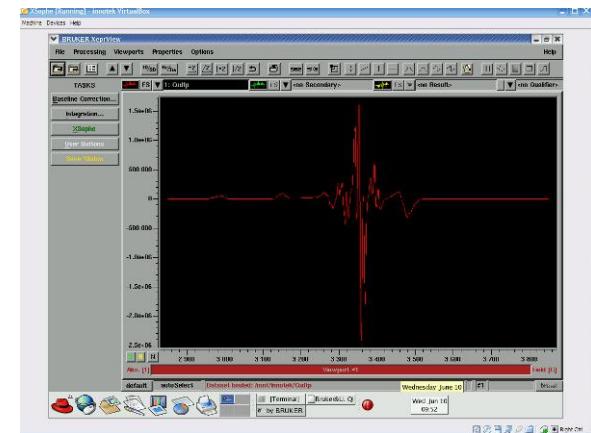
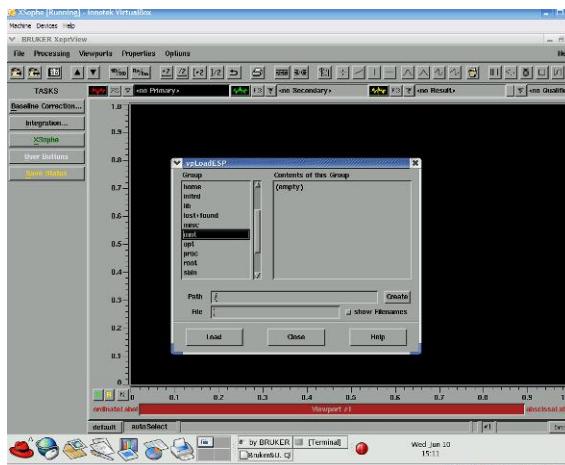
- Open Bruker XSophe



- Open XprView



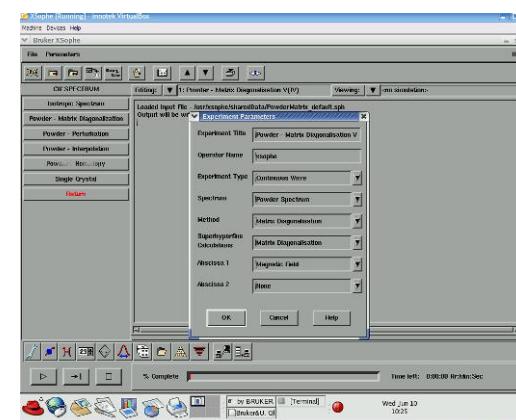
- Load experimental spectrum: File – load
Navigate to e.g. /Server/workshop12/x/sol/ to simulate Cu(DTP)2



- Go back to the **Bruker XSophe** window
- Select **CW- Powder-Matrix Digitalization**



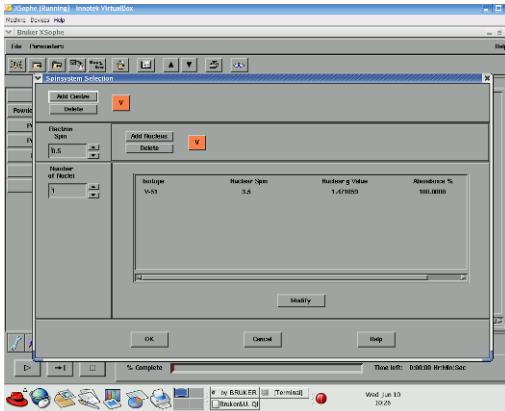
- Experimental parameters window comes up
- Press **cancel**



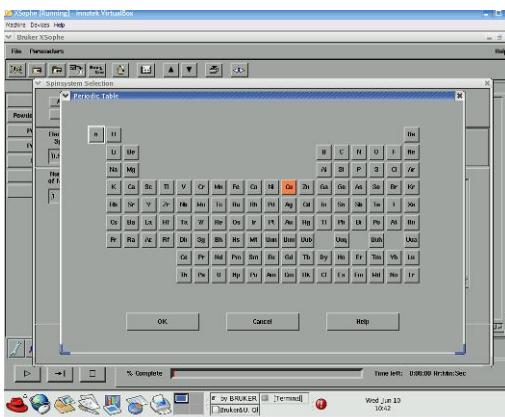
- Open the **Spinsystem selection** window



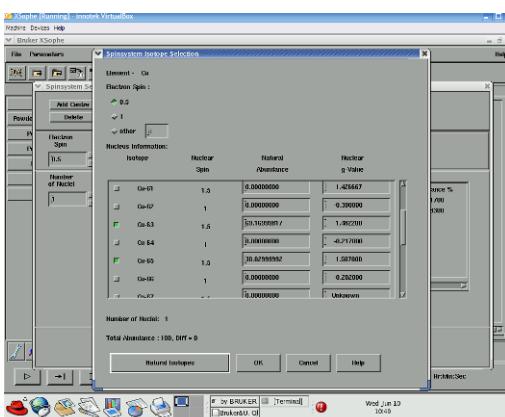
- Spinsystem selection



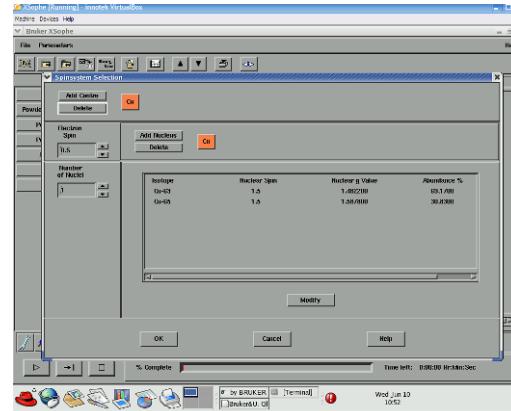
- Delete V
- Add centre
- Select atom from periodic table (Cu for Cu(dtp)₂)



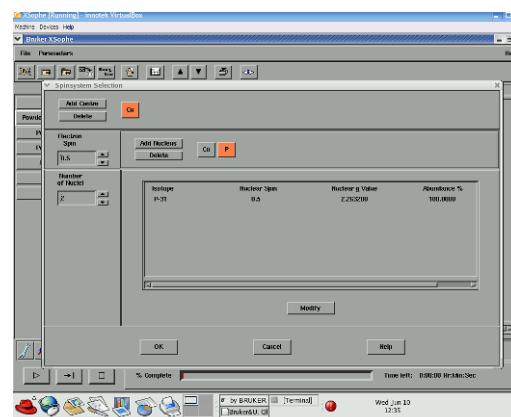
- Select natural isotopes



- Press OK



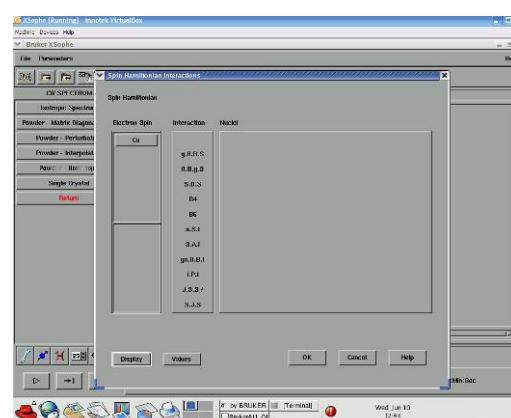
- Add nucleus
- Select from periodic table (P for Cu(dtp)₂)
- Select **natural isotopes** and nr of nuclei (2 for Cu(dtp)₂)



- Open the Spin Hamiltonian Parameters window

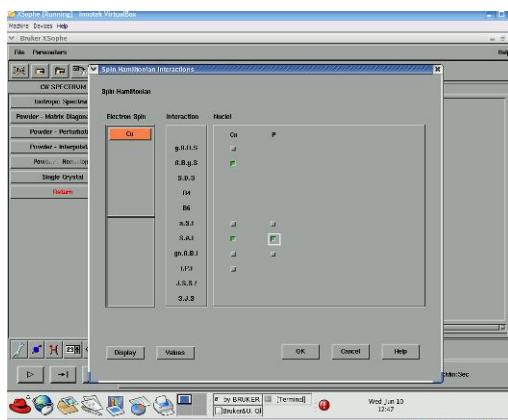


- Spin Hamiltonian interaction



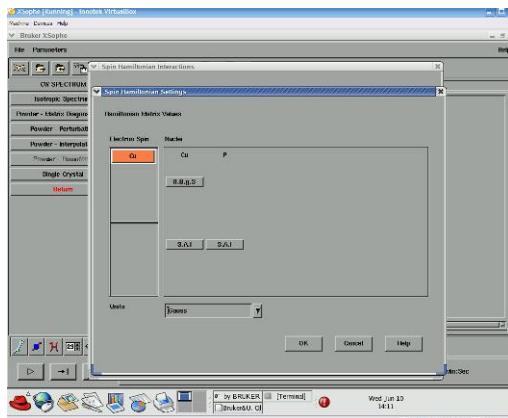
- Select Cu
- Select β BgS for g values for anisotropic spectra

- Select SAI for A values for anisotropic spectra

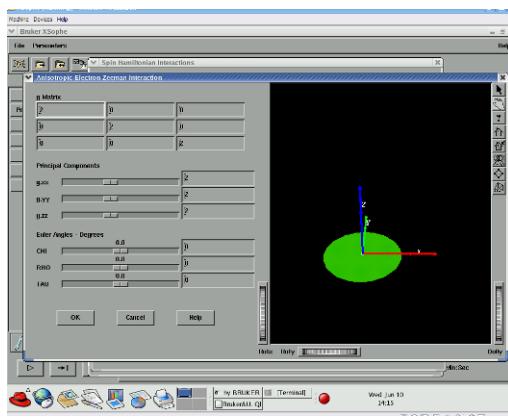


- Select values from the Spin Hamiltonian Settings windows

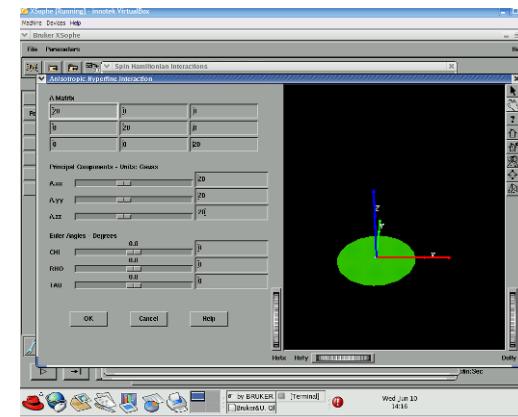
- Change units in Gauss
- Select Cu



- Select βBgS to assign g values



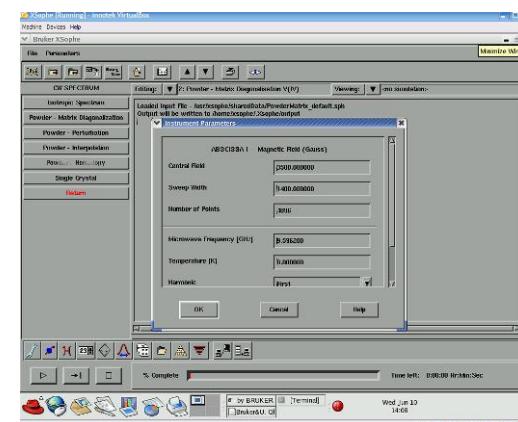
- Select SAI for hyperfine values (Cu and P for Cu(dtp))



- Open the Instrument parameters window



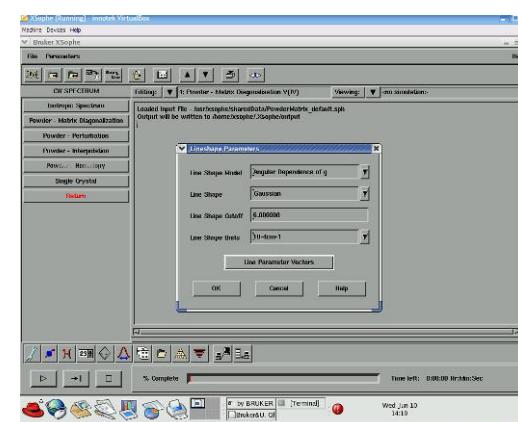
- Instrument parameters



- Open the Lineshape parameter window

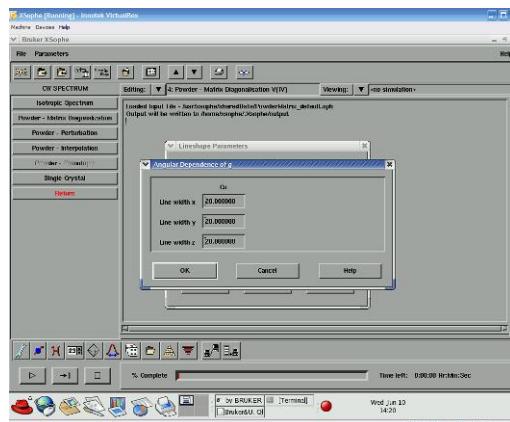


- Lineshape parameters



- Change lineshape units
- Open line parameter vectors

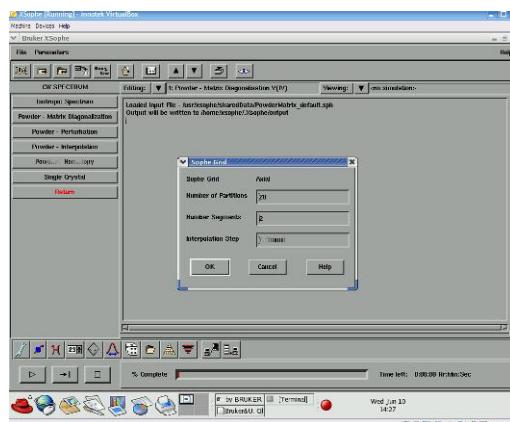
- Angular dependence of g



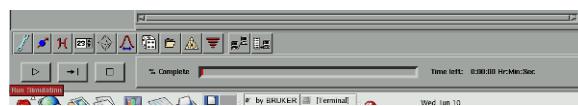
- Open the Sophe Grid Parameters window



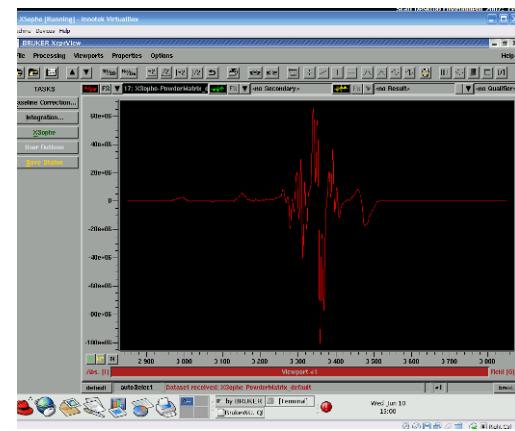
- Sophe grid
- Increase the number of partitions if the simulated spectrum has too many spikes.



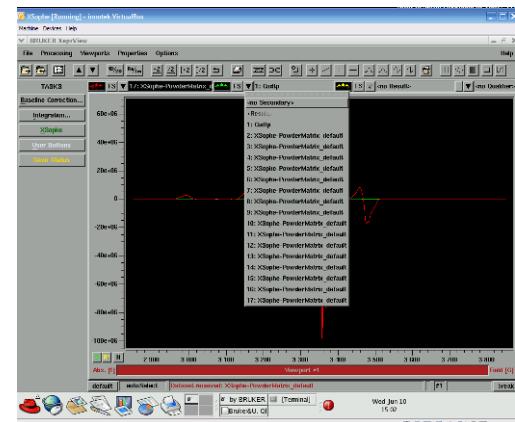
- Run simulation



- Switch to the Xepc View window when the simulation is completed



- Select your experimental spectrum as secondary spectrum



- Adjust the scale of the primary and secondary spectrum
- Go to Properties - Relative ordinate scale
- Select Primary - set
- Select Secondary - set

