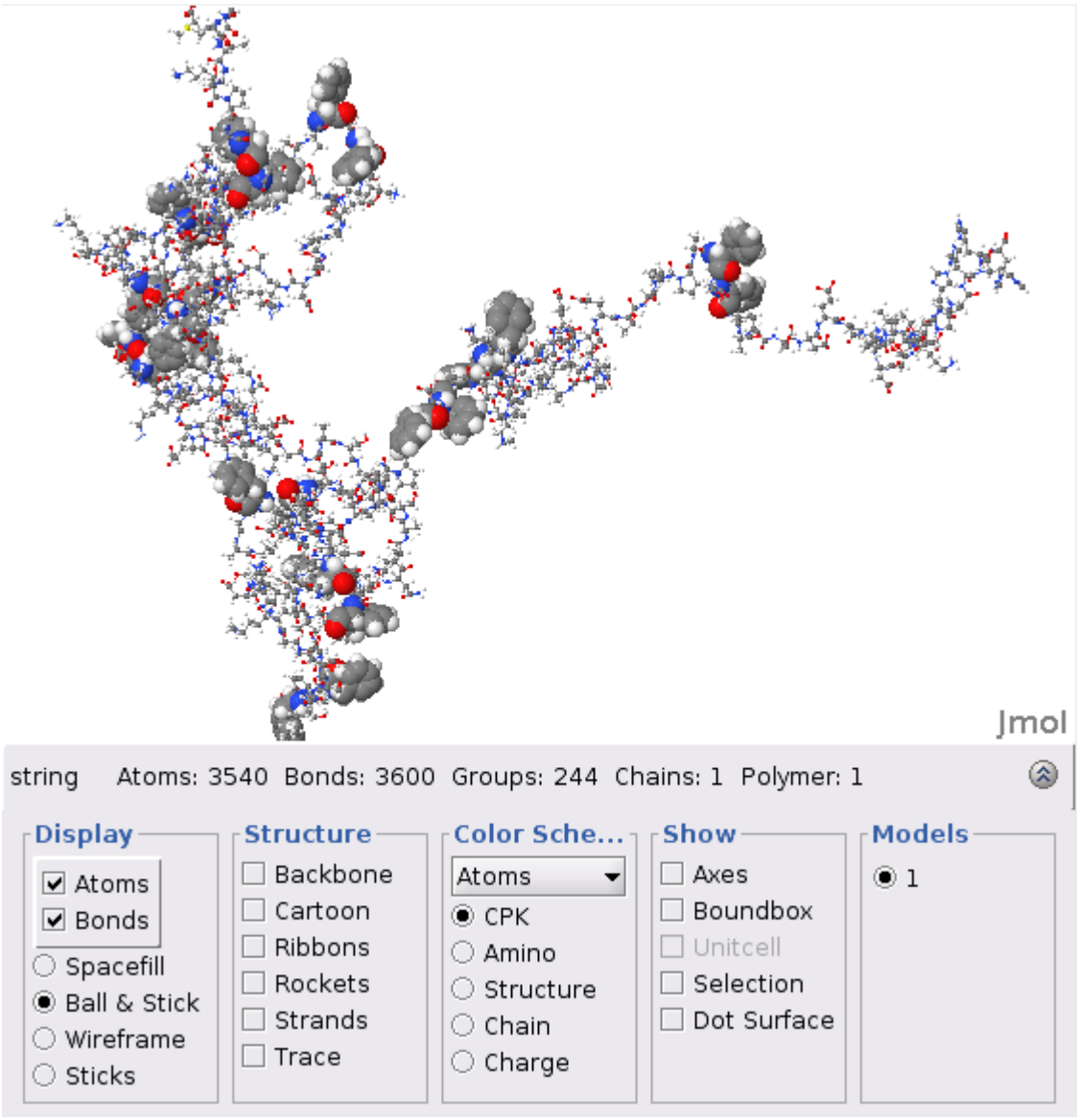
test phe phe differences

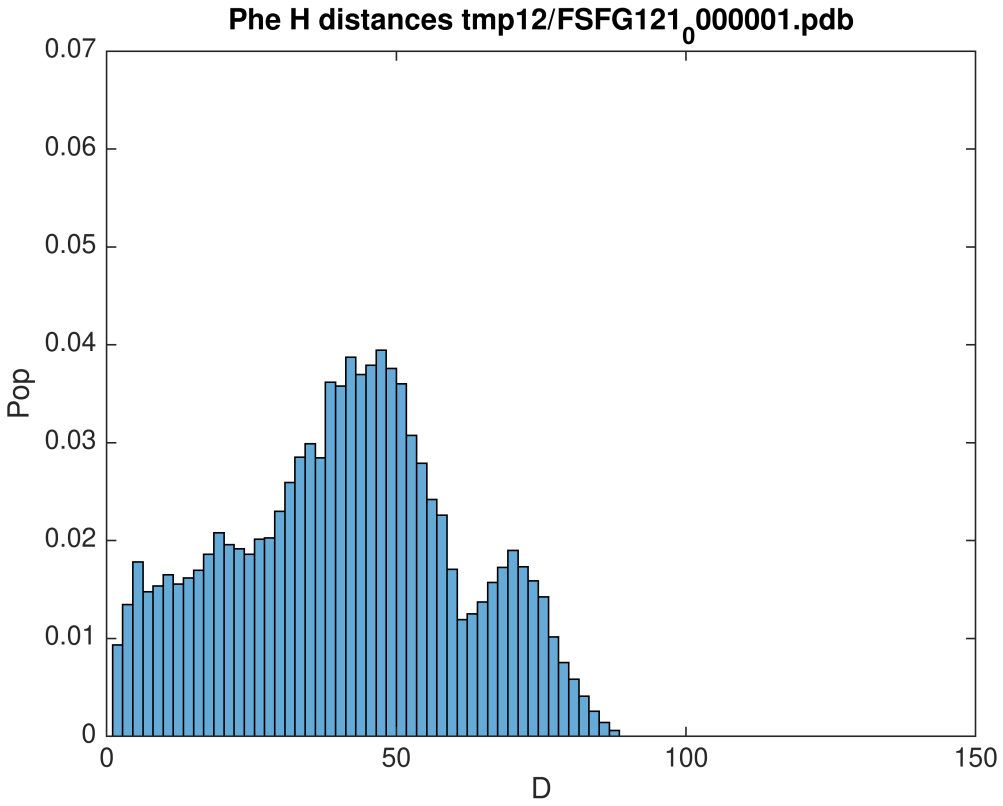
```
ips=[1 100 1000 10000 100000 1000000]; close all;
addpath('../lib1');
for ii=ips
    [out, file]=gettmppdb(ii);
   Atom=out.Model.Atom;
   disp(file);
   drawnow;

  for jj=1:numel(Atom)
      maskp(jj)=isequal(Atom(jj).resName,'PHE');
      maksh(jj) = contains(Atom(jj).AtomName,'H');
      co(jj,1:3)=[Atom(jj).X Atom(jj).Y  Atom(jj).Z];
  end
  mask=maskp & maksh;
  co=co(mask,:);
  dr=zeros(size(co,1));
dr=hypot23u(co);
f(ii)=figure;
tmp=sqrt(dr(dr>0));
%tmp=tmp./sum(tmp);
mtmp=max(tmp);
q(ii)=histogram(tmp,50, 'Normalization','probability');
xlabel('D'); ylabel('Pop'); title ([ 'Phe H distances ' file ]);
axis([0 150 0 0.07]);
drawnow;
end
```

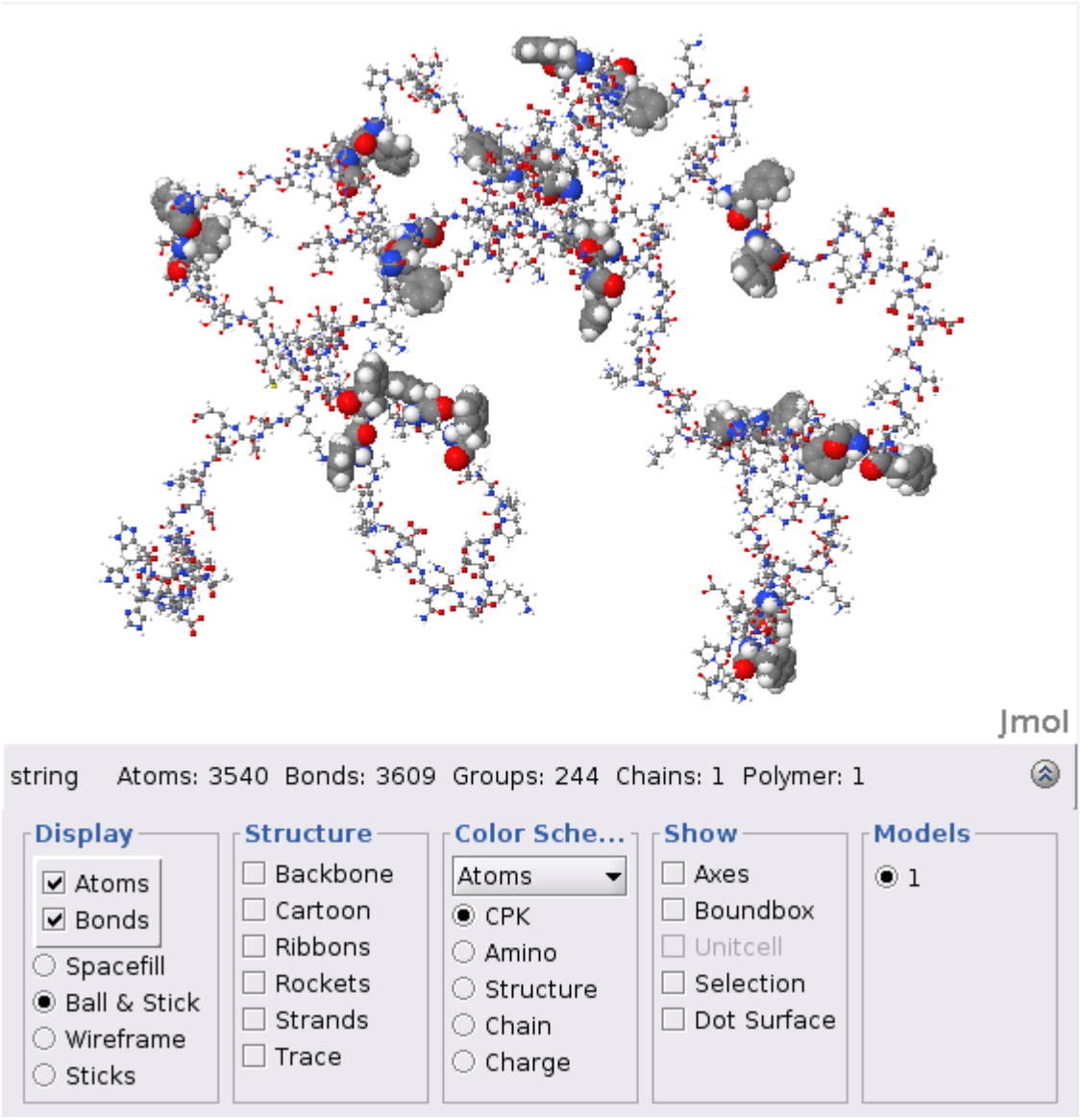
```
Warning: MOLVIEWER will be removed in a future release.
```



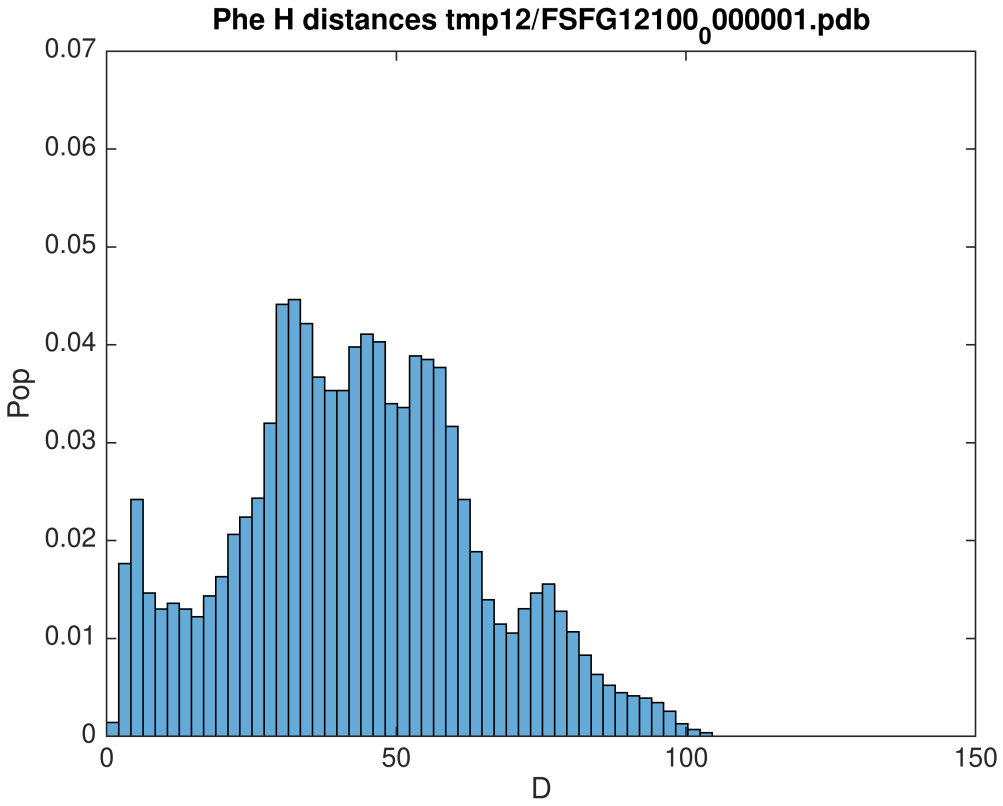

```
Warning: All the mandatory fields are missing from the input PDB structure.
Warning: EVALRASMOLSCRIPT will be removed in a future release.
tmp12/FSFG121_0000001.pdb
Warning: MATLAB has disabled some advanced graphics rendering features by switching to software
OpenGL. For more information, click here.
```



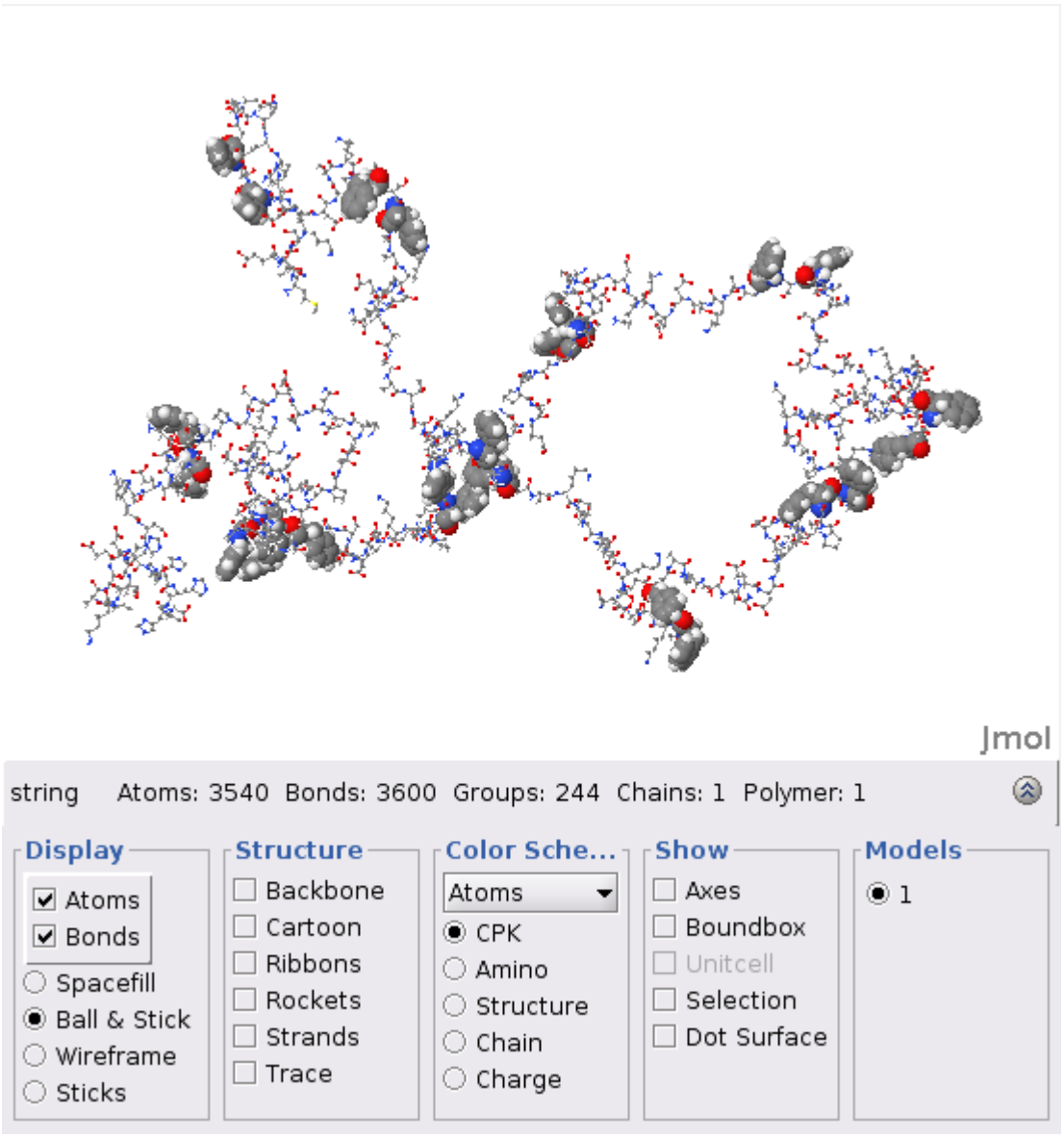
Warning: MOLVIEWER will be removed in a future release.



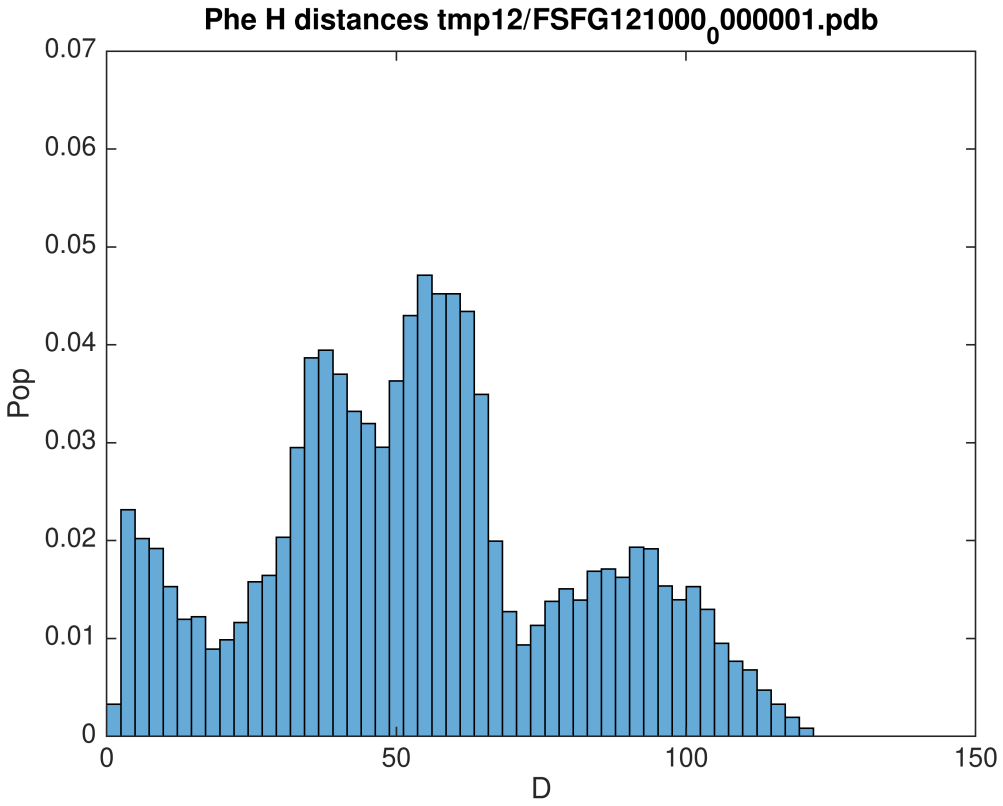
Warning: All the mandatory fields are missing from the input PDB structure.
Warning: EVALRASMOLSCRIPT will be removed in a future release.
tmp12/FSFG12100_0000001.pdb



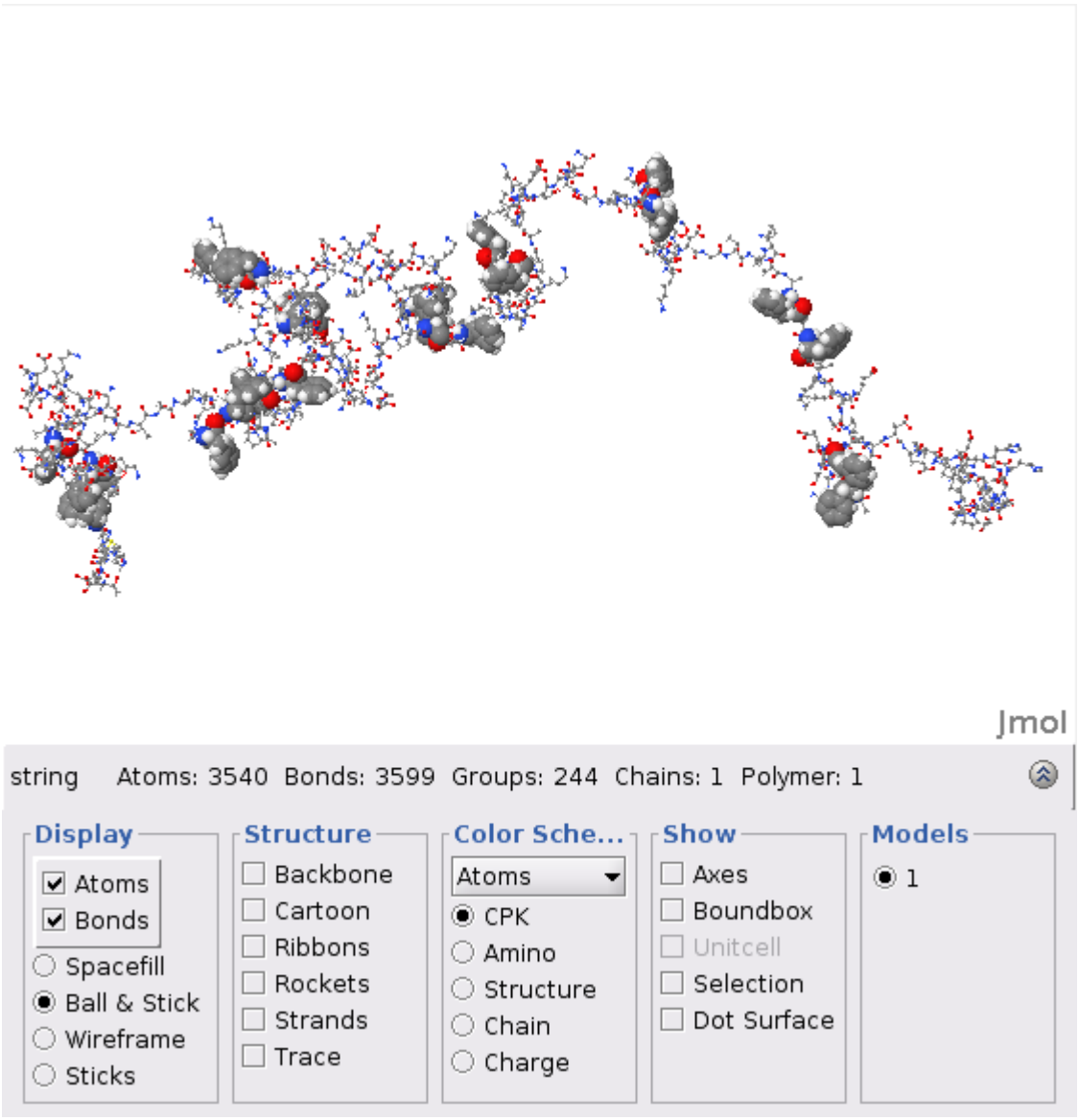
Warning: MOLVIEWER will be removed in a future release.



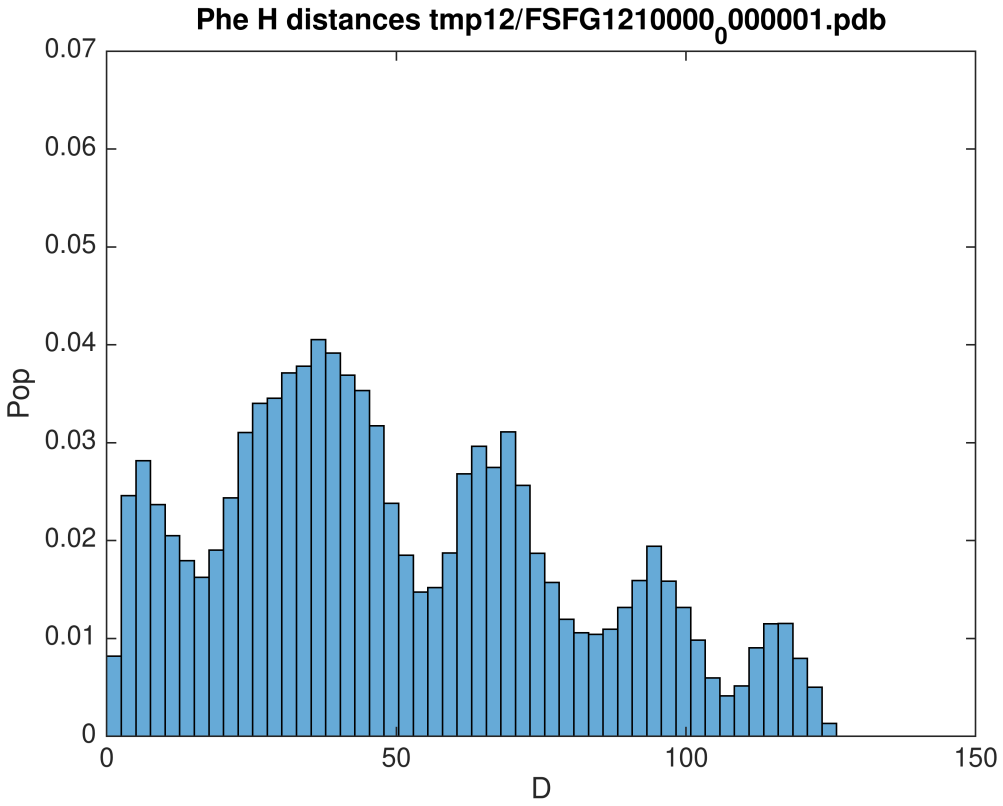

```
Warning: All the mandatory fields are missing from the input PDB structure.
Warning: EVALRASMOLSCRIPT will be removed in a future release.
tmp12/FSFG121000_0000001.pdb
```



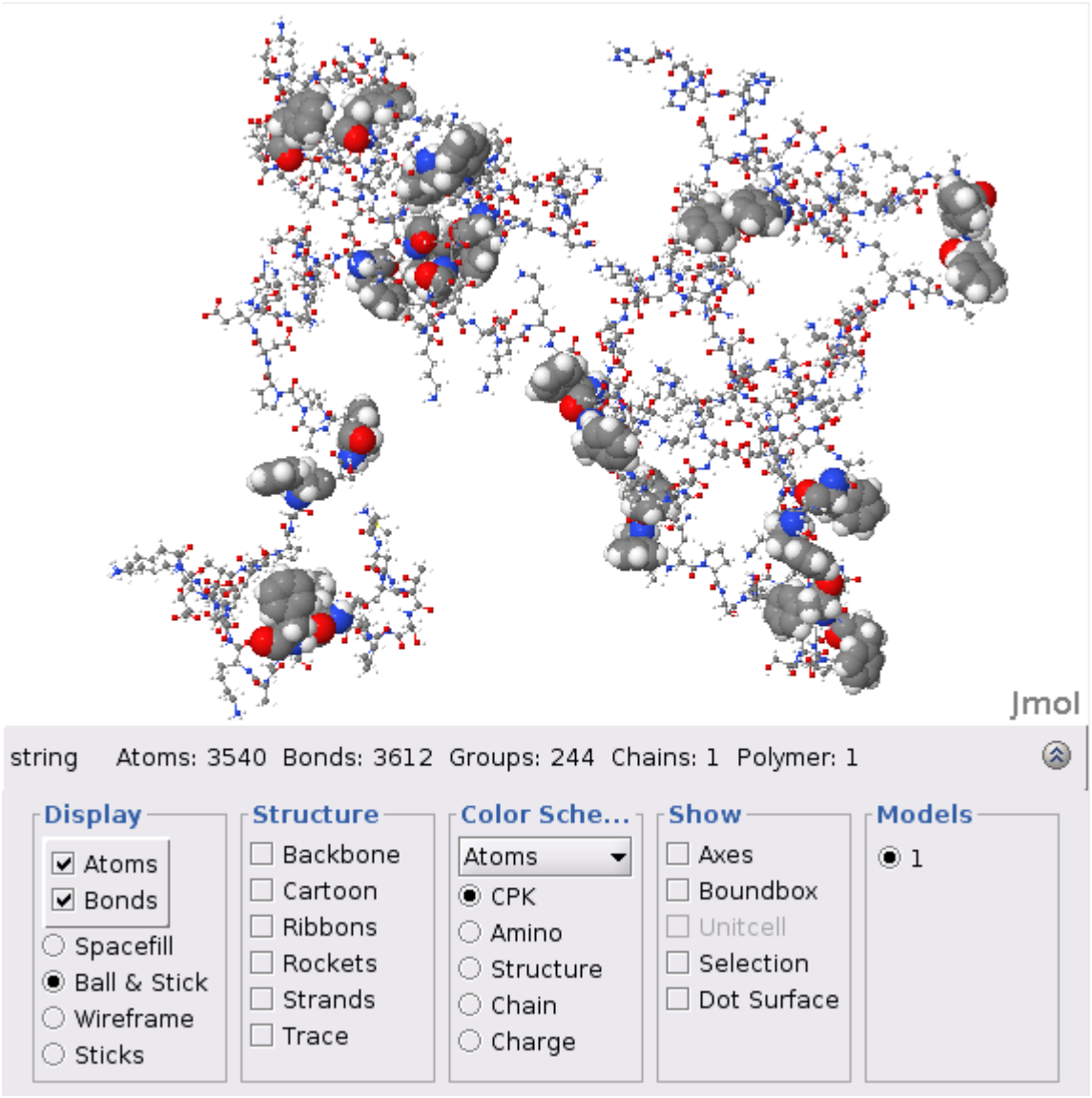
Warning: MOLVIEWER will be removed in a future release.



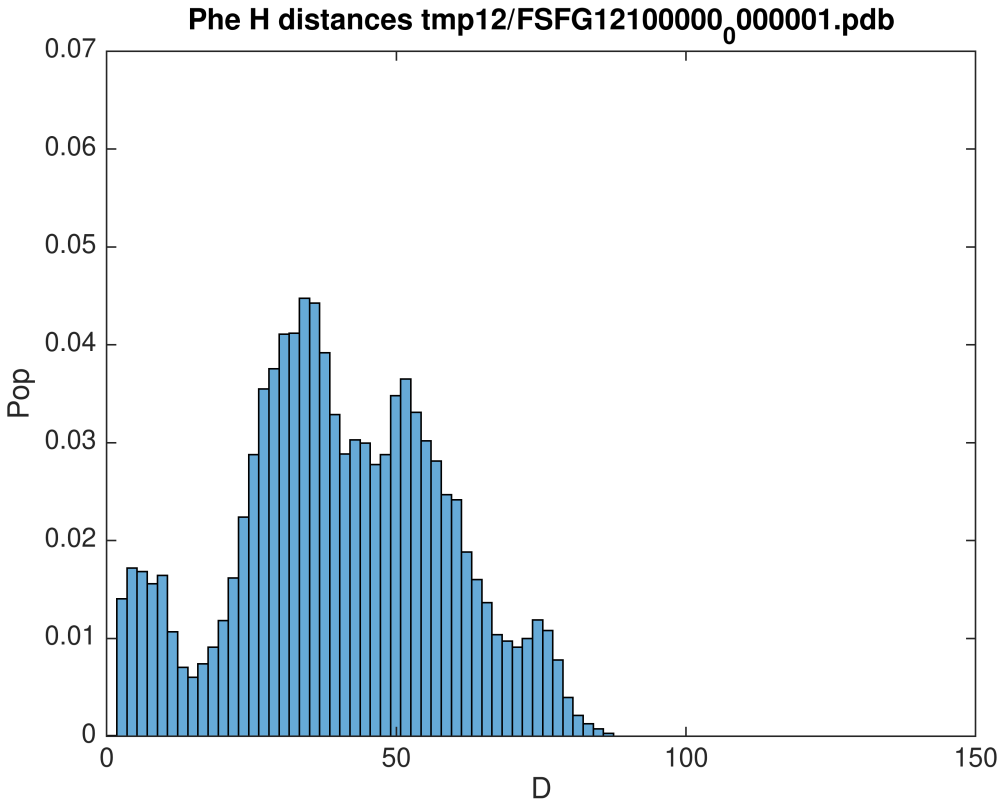
Warning: All the mandatory fields are missing from the input PDB structure.
Warning: EVALRASMOLSCRIPT will be removed in a future release.
tmp12/FSFG1210000_0000001.pdb



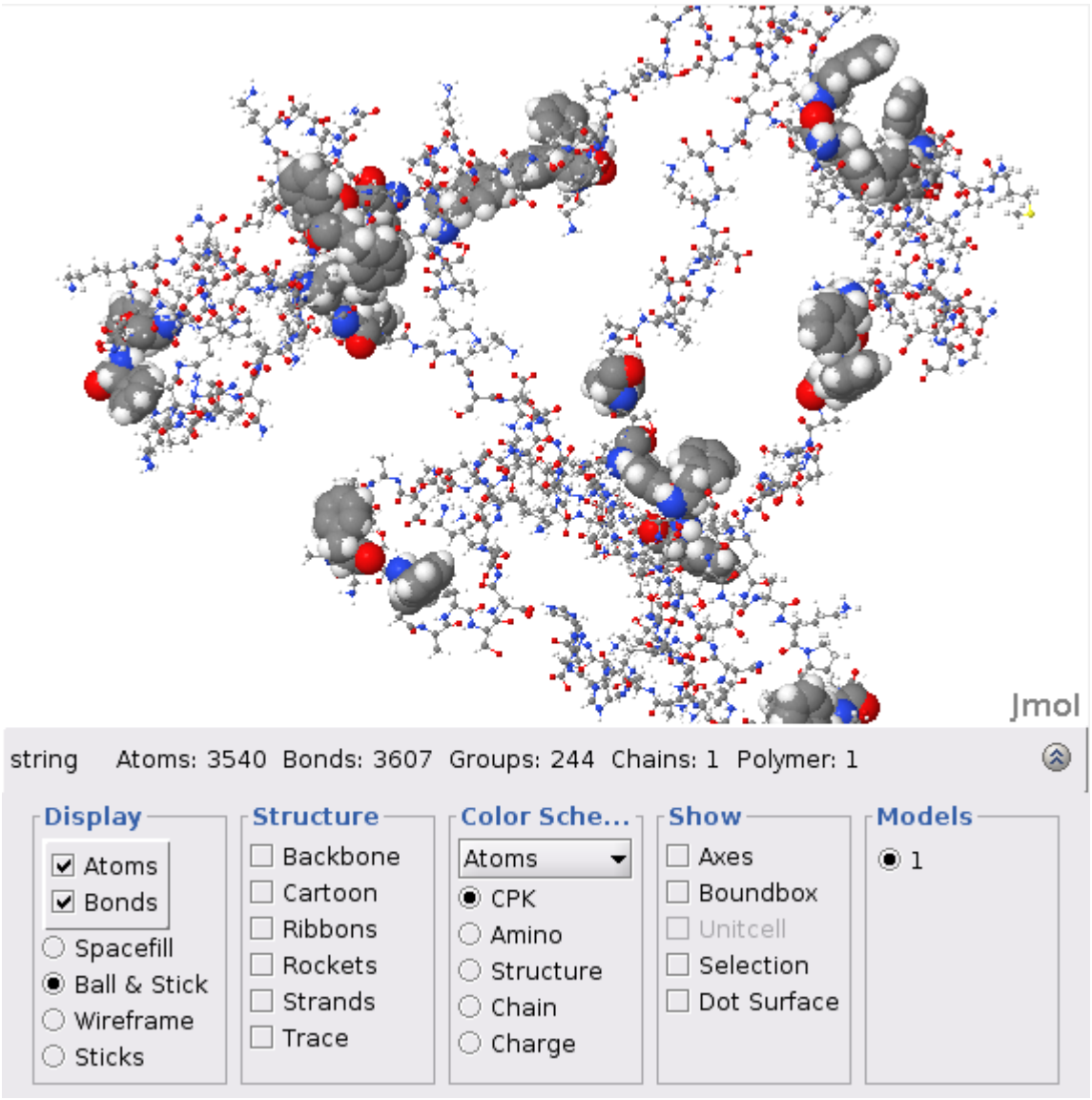

```
Warning: MOLVIEWER will be removed in a future release.
```



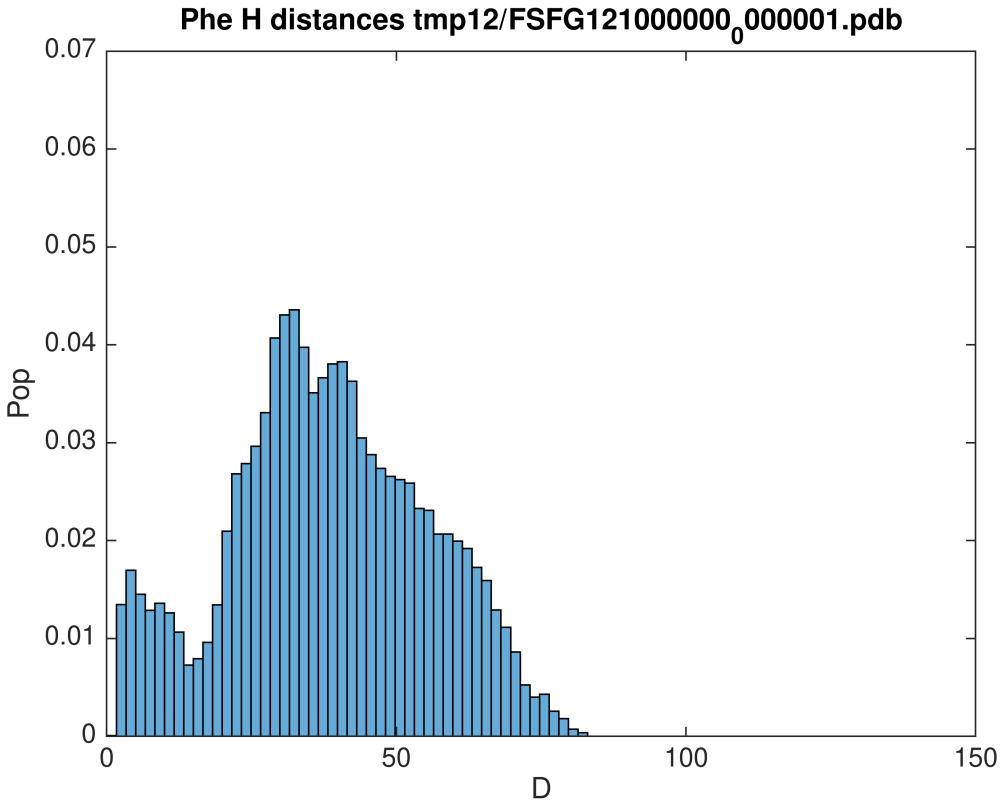
Warning: All the mandatory fields are missing from the input PDB structure.
Warning: EVALRASMOLSCRIPT will be removed in a future release.
tmp12/FSFG12100000_0000001.pdb




```
Warning: MOLVIEWER will be removed in a future release.
```



Warning: All the mandatory fields are missing from the input PDB structure.
Warning: EVALRASMOLSCRIPT will be removed in a future release.
tmp12/FSFG121000000_0000001.pdb


Phe H distances tmp12/FSFG121000000_0000001.pdb
Pop
D
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
50
100
150