```
beginfig(1);
def phi(expr x, sigm) = mexp (-(x^{**}2)/(2*sigm^{**}2))/(sigm^{*}sqrt(2*3.14)) enddef;
numeric ux, uy;
ux = 2mm; uy = 25mm;
drawarrow (-40ux.0)--(40ux.0):
drawarrow (0.0)--(0,25ux);
path f;
numeric qq; qq=0.4;
numeric start; start=0;
f = (0*ux, phi(0, gg)*uy) \{right\}
for i=1 upto 34: .. ((start+ i)*ux, phi(start + i, gg)*uy ) endfor;
path ff;
ff = ((start + 32)*ux.0)--((start + 8)*ux.0){right}
for i=8 upto 34: -- ((start+ i)*ux, phi(start + i, gg)*uy ) endfor
--cycle;
draw f;
draw f reflectedabout ((0,-1),(0,1));
fill ff withcolor 0.5(0,151,10) +0.5white;
z1=((start + 8)*ux,0);
fill fullcircle scaled 5 shifted z1 withcolor blue:
draw ((start + 8)*ux,0)--((start + 8)*ux, phi(0 + 8, gg)*uy) withcolor blue;
endfig;
end.
```

verbatimtex \input chert etex;