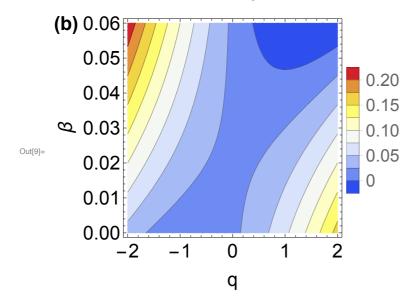
```
In[1]:= Clear@"`*"
      SetOptions[Plot, BaseStyle → {FontSize → 20}];
      SetOptions[ContourPlot, BaseStyle \rightarrow {FontSize \rightarrow 20}];
      (*Take[$FontFamilies,300])
In[4]:= alpha = 0.02;
      beta = 0;
In[6]:= pa =
       \label{eq:plot} Plot\left[\left.\left\{\left\{1+q^2-b\ q-alpha\ beta\ b\ q\right\}\right.\right/.\ b\rightarrow0\,,\ \left\{1+q^2-b\ q-alpha\ beta\ b\ q\right\}\right.\right/.\ b\rightarrow1\,,
           \{1+q^2-bq-alpha\ beta\ bq\}\ /.\ b\rightarrow -1\}, \{q,-1.5,\ 1.5\}, PlotLegends \rightarrow
          Placed[\{"b=0", "b=1", "b=-1"\}, \{ImageScaled[\{0.5, -0.2\}], \{0.5, 0\}\}],
         LabelStyle \rightarrow Directive[FontSize \rightarrow 20], AxesLabel \rightarrow {q, "\omega_r"},
         ImageSize \rightarrow {380, 300},
         Epilog \rightarrow Text[Style["(a)", Bold, 20], ImageScaled@{.04, .96}],
         PlotRangeClipping → False]
          (a)
                                      \omega_r
                                      3
Out[6]=
                                      2
          -1.5 - 1.0 - 0.5
                                                        1.0
                                               0.5
                   __ b=0 __ b=1 __ b=-1
```

In[7]:=

In[8]:=

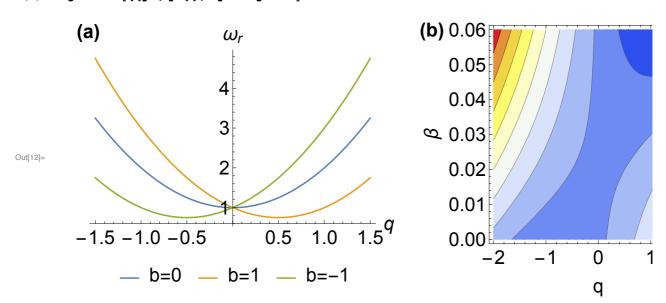
+

```
ln[9]= pb = ContourPlot[alpha (1 + q^2 - bq) + beta bq /. b \rightarrow -1.5,
       \{q, -2, 2\}, \{beta, 0, 0.06\}, FrameLabel \rightarrow \{"q", "\beta"\}, PlotLegends \rightarrow \{"q", "\beta"\}
        {\tt Placed[BarLegend[Automatic, LabelStyle \rightarrow Directive[FontSize \rightarrow 18]\,,}
           LegendMarkerSize \rightarrow 150, LegendMargins \rightarrow 0], {{1, 0.5}, {0, 0.4}}],
       ColorFunction → "TemperatureMap", ImageSize → {365, 300},
       PlotRangeClipping → False
```



In[10]:= In[11]:=

ln[12]:= fig = Grid[{{pa, pb}}}, Spacings  $\rightarrow$  0]



in[i3]:= filename = FileNameJoin[{NotebookDirectory[], "wr\_wi.pdf"}]; Export[filename, fig];