```
In[1184]:= ClearAll[m1, m2]
        Needs["PlotLegends`"]
        mchirp[m1_, m2_] = (m1 m2) ^ (3 / 5) (m1 + m2) ^ (-1 / 5);
        f0 = 10;
        myplotfn2[m1_, m2_, t_] = ((mchirp[m1, m2] * 4.92549095 * 10 ^ -6) * f0 ^ 9) ^ (1 / 8)
           (((mchirp[m1, m2] * 4.92549095 * 10 ^ -6) * f0) ^ (1 / 3) -
              256 f0 ^ 3 (mchirp[m1, m2] * 4.92549095 * 10 ^ -6) ^ 2 N[π] ^ (8 / 3) (t / 5)) ^ (-3 / 8);

In[1189]:= Needs["PlotLegends`"]
        g2 = Plot[{myplotfn2[10, 10, t], myplotfn2[10, 1.4, t], myplotfn2[10, 1, t],
           myplotfn2[1.4, 1.4, t], myplotfn2[1.4, 1, t], myplotfn2[1, 1, t]}
          , {t, 0, 1780}, PlotStyle → {{Thickness[Large], Magenta}, {Thickness[Large], Cyan},
             {Thickness[Large], Red}, {Thickness[Large], Orange},
             {Thickness[Large], Green}, {Thickness[Large], Blue}},
          PlotRange → {{0, 1780}, {0, 120}}, Frame → True, ImageSize → 600,
          PlotLegend → {Style["BH-BH", Bold, 13], Style["BH-NS", Bold, 13], Style["BH-WD", Bold, 13],
             Style["NS-NS", Bold, 13], Style["NS-WD", Bold, 13], Style["WD-WD", Bold, 13]},
          LegendPosition → {1, -0.25}, BaseStyle → {FontFamily → "Arial", 18},
          FrameLabel → {"time (s)", "Frequency (Hz)"}, LegendShadow → None]
```