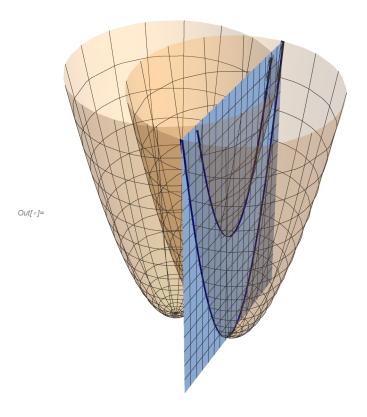
```
Im[*]:= Show[
    ParametricPlot3D[{r Cos[θ], r Sin[θ], r²},
        {r, θ, 3}, {θ, θ, 2π}, PlotStyle → Opacity[0.2]],
    ParametricPlot3D[{r Cos[θ] - 2, r Sin[θ], r²}, {r, θ, 3},
        {θ, θ, 2π}, PlotStyle → Opacity[0.2]],
    ParametricPlot3D[{θ, y, z}, {y, -3, 3}, {z, θ, 9}, PlotStyle → White],
    ParametricPlot3D[{θ, y, y^2}, {y, -3, 3},
        {z, θ, 9}, PlotStyle → {Blue, Thickness[0.1]}],
    ParametricPlot3D[{θ, y, y^2 + 4}, {y, -2.2, 2.2}, {z, θ, 9},
        PlotStyle → {Blue, Thickness[0.1]}],
    Axes → False,
    PlotRange → All,
    Boxed → False
]
```



In[\*]:= Export["C:\\Users\\willo\\Documents\\Uni\\Year 4\\Introduction to Condensed

Matter\\Notes\\images\\parabolas-from-parabaloids.pdf", %66, "PDF"]