One patch, without effect of microbes on pollinators

This creates plots of equilibria for the one-plant model without feedbacks between microbes and pollinators, and with low and high yeast dispersal rates (keeping bacterial dispersal rates constant). We have to redefine the plot below so I can plot equilibrium abundances by the more intuitive constant pollinator-mediated dispersal rate $\left(\frac{P}{L_0+P}\right)$ instead of L_0 . This script results in the following files:

```
■ 1 patch - h0 - dy0.9 - equil - PLP.pdf
```

■ 1 patch-h0-dy1.1-equil-PLP.pdf

These files are used in figure 2, panels a and b, respectively.

Load package and set working directory:

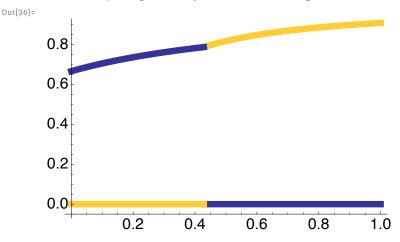
```
In[27]:= Needs["EcoEvo`"];
SetDirectory[NotebookDirectory[]];
SetDirectory[ParentDirectory[] <> "/_figures/_raw-nb"];
```

Define model and set constant parameters:

High yeast dispersal

```
In[34]:= Clear[dy];
 dy = 1.1;
 p = PlotEcoEq[SolveEcoEq[], {PLP, 0, 1},
    UnstableStyle → {Opacity[0]}, StableStyle → {Thickness[0.02]},
    PlotRange \rightarrow \{\{0, 1\}, \{-0.05, 1.5\}\}, AxesOrigin \rightarrow \{0, -0.05\},
    AxesLabel → {None, None},
    LabelStyle → {FontFamily → "Helvetica", 16, GrayLevel[0]}]
 Export[File["1patch-h0-dy1.1-equil-PLP.pdf"], p];
 Clear[p];
```

... Solve: Solve was unable to solve the system with inexact coefficients. The answer was obtained by solving a corresponding exact system and numericizing the result.



Low yeast dispersal

```
In[39]:= Clear[dy];
 dy = 0.9;
 p = PlotEcoEq[SolveEcoEq[], {PLP, 0, 1},
    UnstableStyle → {Opacity[0]}, StableStyle → {Thickness[0.02]},
    PlotRange \rightarrow \{\{0, 1\}, \{-0.05, 1.5\}\}, AxesOrigin \rightarrow \{0, -0.05\},
    AxesLabel → {None, None},
    LabelStyle → {FontFamily → "Helvetica", 16, GrayLevel[0]}]
 Export[File["1patch-h0-dy0.9-equil-PLP.pdf"], p];
 Clear[p];
```

... Solve: Solve was unable to solve the system with inexact coefficients. The answer was obtained by solving a corresponding exact system and numericizing the result.

