```
log_{i}=1 (***Note: Values for generating these plots are embedded within the raw data set,
    which is too large to upload onto the public data repository***)
In[*]:= v1Color = RGBColor["#ff1f5b"];
In[*]:= lpColor = RGBColor["#009ade"];
Info |:= lmColor = RGBColor["#f28522"];
/// Info |:= controlColor = Black;
In[*]:= (**********************************
ln[*]:= dateMouseListControl = {{"012122", "Mouse22550"}, {"012822", "Mouse22549"},
        {"121621", "Mouse22525"}, {"121721", "Mouse22599"}, {"011122", "Mouse22598"},
        {"032923", "Mouse23149"}, {"033023", "Mouse23128"}, {"033123", "Mouse23149"},
        {"070323", "Mouse23149"}, {"070423", "Mouse23128"}}, {"070723", "Mouse23128"}};
In[*]:= (***V1 axons, eOPN3***)
In[*]:= dateMouseListV1axons =
       {{"012722", "Mouse22504"}, {"121821", "Mouse22485"}, {"062723", "Mouse23154"},
        {"062723", "Mouse23182"}, {"063023", "Mouse23154"}, {"063023", "Mouse23182"}};
In[*]:= (***LP axons, e0PN3***)
Inf • ]:= dateMouseListLPaxons =
       {{"050123", "Mouse23133"}, {"050123", "Mouse23142"}, {"050323", "Mouse23133"},
        {"050323", "Mouse23142"}, {"051823", "Mouse23198"}, {"052623", "Mouse23198"},
        {"052623", "Mouse23105"}, {"062923", "Mouse23139"}, {"070223", "Mouse23139"}};
In[*]:= (***LM axons, eOPN3***)
In[*]:= dateMouseListLMaxons =
       {{"062623", "Mouse23152"}, {"062823", "Mouse23152"}, {"062923", "Mouse23190"},
        {"070123", "Mouse23190"}, {"070723", "Mouse23666"}, {"071223", "Mouse23666"}};
/// pairedROIsListControl =
      Table [ToExpression /@ Import [StringJoin ["S:/Imaging/Garrett/FMB208_2PRig/",
           dateMouseListControl[[n, 1]], "/", dateMouseListControl[[n, 2]],
           "/PairedAnalysis/", dateMouseListControl[[n, 1]], "_", dateMouseListControl[[n, 2]],
           "_pairedROIsPupil.txt"], "List"], {n, 1, Length[dateMouseListControl]}];
In[*]:= pairedROIsListV1axons =
      Table [ToExpression /@ Import [StringJoin ["S:/Imaging/Garrett/FMB208_2PRig/",
           dateMouseListV1axons[[n, 1]], "/", dateMouseListV1axons[[n, 2]],
           "/PairedAnalysis/", dateMouseListV1axons[[n, 1]], "_", dateMouseListV1axons[[n, 2]],
           "_pairedROIsPupil.txt"], "List"], {n, 1, Length[dateMouseListV1axons]}];
In[*]:= pairedROIsListLPaxons =
      Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208 2PRig/",
           dateMouseListLPaxons[[n, 1]], "/", dateMouseListLPaxons[[n, 2]],
           "/PairedAnalysis/", dateMouseListLPaxons[[n, 1]], "_", dateMouseListLPaxons[[n, 2]],
           "_pairedROIsPupil.txt"], "List"], {n, 1, Length[dateMouseListLPaxons]}];
```

```
In[*]:= pairedROIsListLMaxons =
      Table [ToExpression /@ Import [StringJoin ["S:/Imaging/Garrett/FMB208_2PRig/",
           dateMouseListLMaxons[[n, 1]], "/", dateMouseListLMaxons[[n, 2]],
           "/PairedAnalysis/", dateMouseListLMaxons[[n, 1]], "_", dateMouseListLMaxons[[n, 2]],
           "_pairedROIsPupil.txt"], "List"], {n, 1, Length[dateMouseListLMaxons]}];
Inf | | | | pupilCCControlDark =
      Table [Table [ToExpression /@ Import [StringJoin ["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseListControl[[n, 1]], "/", dateMouseListControl[[n, 2]], "/", "Session1",
            "/Pupil/", dateMouseListControl[[n, 1]], "_", dateMouseListControl[[n, 2]],
            "_", "Session1", "_", "dFFpupilCrossCorr_ROI", ToString[roi], ".txt"], "List"],
         {roi, pairedROIsListControl[[n]]}], {n, 1, Length[dateMouseListControl]}];
In[*]:= pupilCCControlLED =
      Table [Table [ToExpression /@ Import [StringJoin ["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseListControl[[n, 1]], "/", dateMouseListControl[[n, 2]], "/", "Session2",
            "/Pupil/", dateMouseListControl[[n, 1]], "_", dateMouseListControl[[n, 2]],
            "_", "Session2", "_", "dFFpupilCrossCorr_ROI", ToString[roi], ".txt"], "List"],
         {roi, pairedROIsListControl[[n]]}], {n, 1, Length[dateMouseListControl]}];
/// Imf = pupilCCV1axonsDark =
      Table [Table [ToExpression /@ Import [StringJoin ["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseListV1axons[[n, 1]], "/", dateMouseListV1axons[[n, 2]], "/", "Session1",
            "/Pupil/", dateMouseListV1axons[[n, 1]], "_", dateMouseListV1axons[[n, 2]],
            "_", "Session1", "_", "dFFpupilCrossCorr_ROI", ToString[roi], ".txt"], "List"],
         {roi, pairedROIsListV1axons[[n]]}], {n, 1, Length[dateMouseListV1axons]}];
Table [Table [ToExpression /@ Import [StringJoin ["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseListV1axons[[n, 1]], "/", dateMouseListV1axons[[n, 2]], "/", "Session2",
            "/Pupil/", dateMouseListV1axons[[n, 1]], "_", dateMouseListV1axons[[n, 2]],
            "_", "Session2", "_", "dFFpupilCrossCorr_ROI", ToString[roi], ".txt"], "List"],
         {roi, pairedROIsListV1axons[[n]]}], {n, 1, Length[dateMouseListV1axons]}];
In[*]:= pupilCCLPaxonsDark =
      Table [Table [ToExpression /@ Import [StringJoin ["S:/Imaging/Garrett/FMB208 2PRig/",
            dateMouseListLPaxons[[n, 1]], "/", dateMouseListLPaxons[[n, 2]], "/", "Session1",
            "/Pupil/", dateMouseListLPaxons[[n, 1]], "_", dateMouseListLPaxons[[n, 2]],
            "_", "Session1", "_", "dFFpupilCrossCorr_ROI", ToString[roi], ".txt"], "List"],
         {roi, pairedROIsListLPaxons[[n]]}], {n, 1, Length[dateMouseListLPaxons]}];
In[@]:= pupilCCLPaxonsLED =
      Table[Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseListLPaxons[[n, 1]], "/", dateMouseListLPaxons[[n, 2]], "/", "Session2",
            "/Pupil/", dateMouseListLPaxons[[n, 1]], "_", dateMouseListLPaxons[[n, 2]],
```

"_", "Session2", "_", "dFFpupilCrossCorr_ROI", ToString[roi], ".txt"], "List"],

{roi, pairedROIsListLPaxons[[n]]}], {n, 1, Length[dateMouseListLPaxons]}];

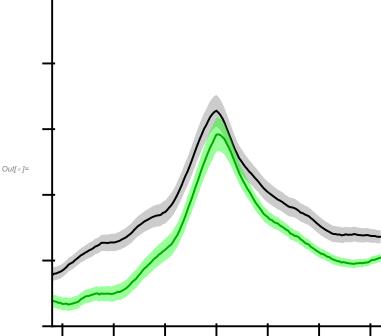
```
In[*]:= pupilCCLMaxonsDark =
       Table [Table [ToExpression /@ Import [StringJoin ["S:/Imaging/Garrett/FMB208_2PRig/",
             dateMouseListLMaxons[[n, 1]], "/", dateMouseListLMaxons[[n, 2]], "/", "Session1",
             "/Pupil/", dateMouseListLMaxons[[n, 1]], "_", dateMouseListLMaxons[[n, 2]],
             "_", "Session1", "_", "dFFpupilCrossCorr_ROI", ToString[roi], ".txt"], "List"],
         {roi, pairedROIsListLMaxons[[n]]}], {n, 1, Length[dateMouseListLMaxons]}];
In[*]:= pupilCCLMaxonsLED =
       Table [Table [ToExpression /@ Import [StringJoin ["S:/Imaging/Garrett/FMB208_2PRig/",
             dateMouseListLMaxons[[n, 1]], "/", dateMouseListLMaxons[[n, 2]], "/", "Session2",
             "/Pupil/", dateMouseListLMaxons[[n, 1]], "_", dateMouseListLMaxons[[n, 2]],
             "_", "Session2", "_", "dFFpupilCrossCorr_ROI", ToString[roi], ".txt"], "List"],
         {roi, pairedROIsListLMaxons[[n]]}], {n, 1, Length[dateMouseListLMaxons]}];
In[@]:= catenatedPupilCCControlDark = Flatten[pupilCCControlDark, 1];
In[*]:= catenatedPupilCCControlLED = Flatten[pupilCCControlLED, 1];
In[*]: catenatedPupilCCV1axonsDark = Flatten[pupilCCV1axonsDark, 1];
In[*]:= catenatedPupilCCV1axonsLED = Flatten[pupilCCV1axonsLED, 1];
In[*]:= catenatedPupilCCLPaxonsDark = Flatten[pupilCCLPaxonsDark, 1];
In[*]:= catenatedPupilCCLPaxonsLED = Flatten[pupilCCLPaxonsLED, 1];
Info | catenatedPupilCCLMaxonsDark = Flatten[pupilCCLMaxonsDark, 1];
ln[*]:= catenatedPupilCCLMaxonsLED = Flatten[pupilCCLMaxonsLED, 1];
In[*]:= (***********)
In[ • ]:= (***)
Info image image is meanCatenatedPupilCCControlDark = Mean[catenatedPupilCCControlDark];
ln[-] := semCatenatedPupilCCControlDark = (#/Sqrt@Length[catenatedPupilCCControlDark]) & /@
        StandardDeviation[catenatedPupilCCControlDark];
In[ • ]:= (***)
ln[*]: meanCatenatedPupilCCV1axonsDark = Mean[catenatedPupilCCV1axonsDark];
ln[\cdot]:= semCatenatedPupilCCV1axonsDark = (\#/Sqrt@Length[catenatedPupilCCV1axonsDark]) & /@
        StandardDeviation[catenatedPupilCCV1axonsDark];
In[ • ]:= ( * * * )
In[=]:= meanCatenatedPupilCCLPaxonsDark = Mean[catenatedPupilCCLPaxonsDark];
ln[\cdot] = semCatenatedPupilCCLPaxonsDark = (#/Sqrt@Length[catenatedPupilCCLPaxonsDark]) & /@
        StandardDeviation[catenatedPupilCCLPaxonsDark];
In[ • ]:= (***)
In[e]:= meanCatenatedPupilCCLMaxonsDark = Mean[catenatedPupilCCLMaxonsDark];
```

```
m[\cdot] = semCatenatedPupilCCLMaxonsDark = (#/Sqrt@Length[catenatedPupilCCLMaxonsDark]) & /@
        StandardDeviation[catenatedPupilCCLMaxonsDark];
In[ • ]:= (***)
In[*]:= meanCatenatedPupilCCControlLED = Mean[catenatedPupilCCControlLED];
l_{m[\cdot]}= semCatenatedPupilCCControlLED = (\#/Sqrt@Length[catenatedPupilCCControlLED]) & /@
        StandardDeviation[catenatedPupilCCControlLED];
In[ • ]:= (***)
Info | meanCatenatedPupilCCV1axonsLED = Mean[catenatedPupilCCV1axonsLED];
l_{m[*]} = semCatenatedPupilCCV1axonsLED = (#/Sqrt@Length[catenatedPupilCCV1axonsLED]) & /@
        StandardDeviation[catenatedPupilCCV1axonsLED];
In[ • ]:= (***)
ln[*]:= meanCatenatedPupilCCLPaxonsLED = Mean[catenatedPupilCCLPaxonsLED];
l_{m[*]} semCatenatedPupilCCLPaxonsLED = (#/Sqrt@Length[catenatedPupilCCLPaxonsLED]) & /@
        StandardDeviation[catenatedPupilCCLPaxonsLED];
In[ • ]:= (***)
In[*]:= meanCatenatedPupilCCLMaxonsLED = Mean[catenatedPupilCCLMaxonsLED];
In[*]:= semCatenatedPupilCCLMaxonsLED = (#/Sqrt@Length[catenatedPupilCCLMaxonsLED]) & /@
        StandardDeviation[catenatedPupilCCLMaxonsLED];
In[*]:= (**********)
```

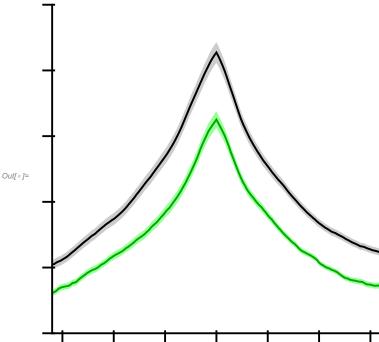
```
In[@]:= Show[ListLinePlot[{Part[#, 2] & /@meanCatenatedPupilCCControlDark,
         Part[#, 2] & /@ meanCatenatedPupilCCControlDark +
           (Part[#, 2] & /@ semCatenatedPupilCCControlDark),
         Part[#, 2] & /@ meanCatenatedPupilCCControlDark -
           (Part[#, 2] & /@ semCatenatedPupilCCControlDark)}, Filling →
          \{1 \rightarrow \{\{2\}, Directive[Opacity[0.4], Gray]\}, 1 \rightarrow \{\{3\}, Directive[Opacity[0.4], Gray]\}\},
        PlotStyle → {{Black, Thickness[0.006]}, Transparent, Transparent},
        DataRange \rightarrow {-8, 8}, PlotRange \rightarrow {{-8, 8}, {-0.05, 0.2}}, FrameTicks \rightarrow
          {{LinTicks[-0.05, 0.2, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None},
           \{ \texttt{LinTicks[-8, 8, MajorTickLength} \rightarrow \{0, .03\}, \texttt{MinorTickLength} \rightarrow \{0, 0\}], \texttt{None} \} \},
         \textbf{Axes} \rightarrow \textbf{False}, \ \textbf{TicksStyle} \rightarrow \textbf{Thick}, \ \textbf{FrameStyle} \rightarrow \textbf{Thick}, \ \textbf{Frame} \rightarrow \{\{\textbf{True}, \textbf{None}\}\}, \ \textbf{True}, \ \textbf{None}\}\}, 
        FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0]],
       ListLinePlot[{Part[#, 2] & /@ meanCatenatedPupilCCControlLED,
         Part[#, 2] & /@ meanCatenatedPupilCCControlLED +
           (Part[#, 2] & /@ semCatenatedPupilCCControlLED),
         Part[#, 2] & /@ meanCatenatedPupilCCControlLED -
           (Part[#, 2] & /@ semCatenatedPupilCCControlLED) }, Filling →
         \{1 \rightarrow \{\{2\}, Directive[Opacity[0.4], Green]\}, 1 \rightarrow \{\{3\}, Directive[Opacity[0.4], Green]\}\},
        PlotStyle → {{Darker@Green, Thickness[0.006]}, Transparent, Transparent},
        DataRange \rightarrow {-8, 8}, PlotRange \rightarrow {{-8, 8}, {-0.05, 0.2}}, FrameTicks \rightarrow
         {{LinTicks[-0.05, 0.2, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None},
           {LinTicks[-8, 8, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None}},
        Axes → False, TicksStyle → Thick, FrameStyle → Thick, Frame → {{True, None}, {True, None}},
        FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0], AspectRatio \rightarrow 1
```

Out[•]=

```
In[@]:= Show[ListLinePlot[{Part[#, 2] & /@meanCatenatedPupilCCV1axonsDark,
         Part[#, 2] & /@ meanCatenatedPupilCCV1axonsDark +
           (Part[#, 2] & /@ semCatenatedPupilCCV1axonsDark),
         Part[#, 2] & /@ meanCatenatedPupilCCV1axonsDark -
           (Part[#, 2] & /@ semCatenatedPupilCCV1axonsDark)}, Filling →
          \{1 \rightarrow \{\{2\}, Directive[Opacity[0.4], Gray]\}, 1 \rightarrow \{\{3\}, Directive[Opacity[0.4], Gray]\}\},
        PlotStyle → {{Black, Thickness[0.006]}, Transparent, Transparent},
        DataRange \rightarrow {-8, 8}, PlotRange \rightarrow {{-8, 8}, {-0.05, 0.2}}, FrameTicks \rightarrow
          {{LinTicks[-0.05, 0.2, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None},
           {LinTicks[-8, 8, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None}},
         \textbf{Axes} \rightarrow \textbf{False}, \ \textbf{TicksStyle} \rightarrow \textbf{Thick}, \ \textbf{FrameStyle} \rightarrow \textbf{Thick}, \ \textbf{Frame} \rightarrow \{\{\textbf{True}, \textbf{None}\}\}, \ \textbf{True}, \ \textbf{None}\}\}, 
        FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0]],
       ListLinePlot[{Part[#, 2] & /@ meanCatenatedPupilCCV1axonsLED,
         Part[#, 2] & /@ meanCatenatedPupilCCV1axonsLED +
           (Part[#, 2] & /@ semCatenatedPupilCCV1axonsLED),
         Part[#, 2] & /@ meanCatenatedPupilCCV1axonsLED -
           (Part[#, 2] & /@ semCatenatedPupilCCV1axonsLED) }, Filling →
         \{1 \rightarrow \{\{2\}, Directive[Opacity[0.4], Green]\}, 1 \rightarrow \{\{3\}, Directive[Opacity[0.4], Green]\}\},
        PlotStyle → {{Darker@Green, Thickness[0.006]}, Transparent, Transparent},
        DataRange \rightarrow {-8, 8}, PlotRange \rightarrow {{-8, 8}, {-0.05, 0.2}}, FrameTicks \rightarrow
         {{LinTicks[-0.05, 0.2, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None},
           \{ \texttt{LinTicks[-8, 8, MajorTickLength} \rightarrow \{0, .03\}, \texttt{MinorTickLength} \rightarrow \{0, 0\}], \texttt{None} \} \},
        Axes → False, TicksStyle → Thick, FrameStyle → Thick, Frame → {{True, None}, {True, None}},
        FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0], AspectRatio \rightarrow 1
```



```
In[@]:= Show[ListLinePlot[{Part[#, 2] & /@meanCatenatedPupilCCLPaxonsDark,
        Part[#, 2] & /@ meanCatenatedPupilCCLPaxonsDark +
          (Part[#, 2] & /@ semCatenatedPupilCCLPaxonsDark),
        Part[#, 2] & /@ meanCatenatedPupilCCLPaxonsDark -
          (Part[#, 2] & /@ semCatenatedPupilCCLPaxonsDark)}, Filling →
         \{1 \rightarrow \{\{2\}, Directive[Opacity[0.4], Gray]\}, 1 \rightarrow \{\{3\}, Directive[Opacity[0.4], Gray]\}\},
       PlotStyle → {{Black, Thickness[0.006]}, Transparent, Transparent},
       DataRange \rightarrow {-8, 8}, PlotRange \rightarrow {{-8, 8}, {-0.05, 0.2}}, FrameTicks \rightarrow
         {{LinTicks[-0.05, 0.2, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None},
          {LinTicks[-8, 8, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None}},
       Axes → False, TicksStyle → Thick, FrameStyle → Thick, Frame → {{True, None}}, {True, None}},
       FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0]],
      ListLinePlot[{Part[#, 2] & /@ meanCatenatedPupilCCLPaxonsLED,
        Part[#, 2] & /@ meanCatenatedPupilCCLPaxonsLED +
          (Part[#, 2] & /@ semCatenatedPupilCCLPaxonsLED),
        Part[#, 2] & /@ meanCatenatedPupilCCLPaxonsLED -
          (Part[#, 2] & /@ semCatenatedPupilCCLPaxonsLED) }, Filling →
        \{1 \rightarrow \{\{2\}, Directive[Opacity[0.4], Green]\}, 1 \rightarrow \{\{3\}, Directive[Opacity[0.4], Green]\}\},
       PlotStyle → {{Darker@Green, Thickness[0.006]}, Transparent, Transparent},
       DataRange \rightarrow {-8, 8}, PlotRange \rightarrow {{-8, 8}, {-0.05, 0.2}}, FrameTicks \rightarrow
        {{LinTicks[-0.05, 0.2, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None},
          {LinTicks[-8, 8, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None}},
       Axes → False, TicksStyle → Thick, FrameStyle → Thick, Frame → {{True, None}, {True, None}},
       FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0], AspectRatio \rightarrow 1
```



```
In[@]:= Show[ListLinePlot[{Part[#, 2] & /@meanCatenatedPupilCCLMaxonsDark,
         Part[#, 2] & /@ meanCatenatedPupilCCLMaxonsDark +
           (Part[#, 2] & /@ semCatenatedPupilCCLMaxonsDark),
         Part[#, 2] & /@ meanCatenatedPupilCCLMaxonsDark -
           (Part[#, 2] & /@ semCatenatedPupilCCLMaxonsDark)}, Filling →
          \{1 \rightarrow \{\{2\}, Directive[Opacity[0.4], Gray]\}, 1 \rightarrow \{\{3\}, Directive[Opacity[0.4], Gray]\}\},
        PlotStyle → {{Black, Thickness[0.006]}, Transparent, Transparent},
        DataRange \rightarrow {-8, 8}, PlotRange \rightarrow {{-8, 8}, {-0.05, 0.2}}, FrameTicks \rightarrow
          {{LinTicks[-0.05, 0.2, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None},
           {LinTicks[-8, 8, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None}},
         \textbf{Axes} \rightarrow \textbf{False}, \ \textbf{TicksStyle} \rightarrow \textbf{Thick}, \ \textbf{FrameStyle} \rightarrow \textbf{Thick}, \ \textbf{Frame} \rightarrow \{\{\textbf{True}, \textbf{None}\}\}, \ \textbf{True}, \ \textbf{None}\}\}, 
        FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0]],
       ListLinePlot[{Part[#, 2] & /@ meanCatenatedPupilCCLMaxonsLED,
         Part[#, 2] & /@ meanCatenatedPupilCCLMaxonsLED +
           (Part[#, 2] & /@ semCatenatedPupilCCLMaxonsLED),
         Part[#, 2] & /@ meanCatenatedPupilCCLMaxonsLED -
           (Part[#, 2] & /@ semCatenatedPupilCCLMaxonsLED) }, Filling →
         \{1 \rightarrow \{\{2\}, Directive[Opacity[0.4], Green]\}, 1 \rightarrow \{\{3\}, Directive[Opacity[0.4], Green]\}\},
        PlotStyle → {{Darker@Green, Thickness[0.006]}, Transparent, Transparent},
        DataRange \rightarrow {-8, 8}, PlotRange \rightarrow {{-8, 8}, {-0.05, 0.2}}, FrameTicks \rightarrow
         {{LinTicks[-0.05, 0.2, MajorTickLength \rightarrow {0, .03}, MinorTickLength \rightarrow {0, 0}], None},
           \{ \texttt{LinTicks[-8, 8, MajorTickLength} \rightarrow \{0, .03\}, \texttt{MinorTickLength} \rightarrow \{0, 0\}], \texttt{None} \} \},
        Axes → False, TicksStyle → Thick, FrameStyle → Thick, Frame → {{True, None}, {True, None}},
        FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0], AspectRatio \rightarrow 1
```

