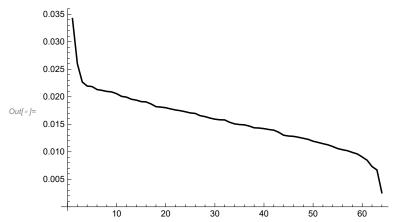
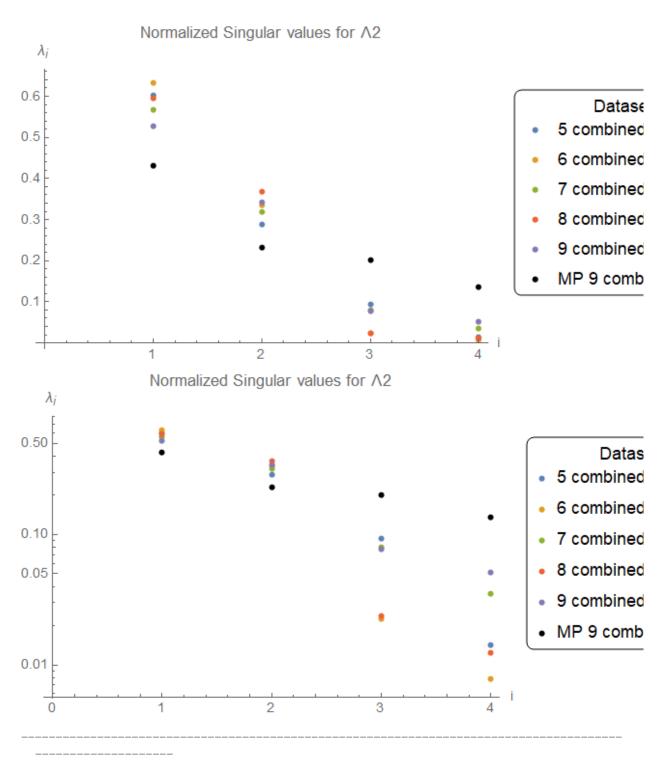
StringJoin["Normalized Singular Value Spectrum ", "of A number ", ToString[numSVD]]

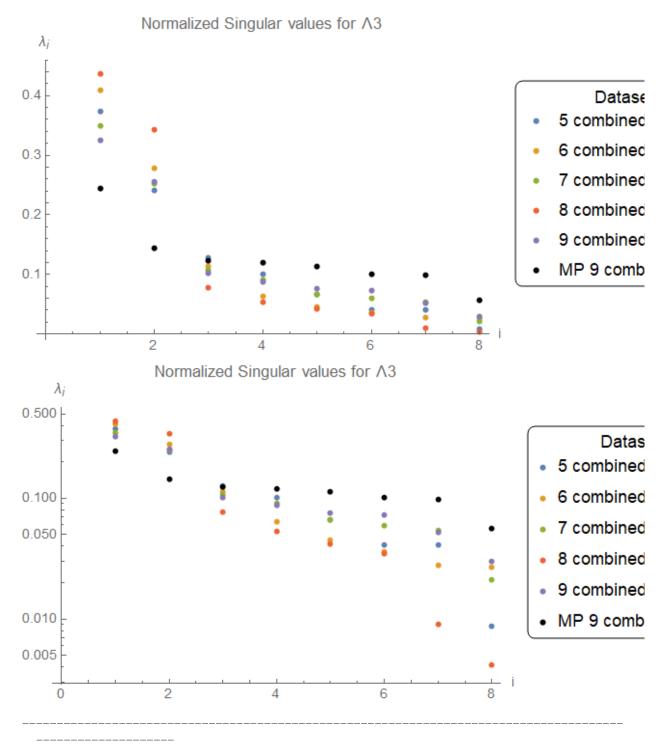


```
amin = 5;
In[ • ]:=
       amax = 9;
       Do [
        Print[Style[StringJoin["For the ", ToString[numSVD],
            "-th SVD, the Singular Values are:"], Black, Bold, 22]]
         Print[
          Rasterize[
           ListPlot[
            ToExpression[Join[
               Table [StringJoin ["Normalized", "C1",
                 ToString[a], "num", ToString[numSVD]], {a, amin, amax}],
               {StringJoin["Normalized", "MP1", ToString[9], "num", ToString[numSVD]]}
             11
            , PlotLegends → PointLegend[Automatic,
               {"5 combined PCV1", "6 combined PCV1", "7 combined PCV1", "8 combined PCV1",
                "9 combined PCV1", "MP 9 combined analog"}, LegendMarkers → Automatic,
               LegendFunction → "Frame", LegendLabel → "Datasets"], PlotLabel →
              StringJoin["Normalized Singular values for ", "A", ToString[numSVD]],
            AxesLabel \rightarrow {"i", "\lambda_i"},
            PlotStyle → {Automatic, Dashed, Dotted, DotDashed, Automatic, Black}(*,
            PlotMarkers→{Automatic, Automatic, Automatic, Automatic, Black}*)
           ], RasterSize → 750, ImageSize → 750]
         1
         Print[
           Rasterize[
           ListLogPlot[
            ToExpression[Join[
               Table [StringJoin ["Normalized", "C1",
                 ToString[a], "num", ToString[numSVD]], {a, amin, amax}],
               {StringJoin["Normalized", "MP1", ToString[9], "num", ToString[numSVD]]}
             11
            , PlotLegends →
              PointLegend[Automatic, {"5 combined PCV1", "6 combined PCV1", "7 combined PCV1",
                "8 combined PCV1", "9 combined PCV1", "MP 9 combined analog"},
               LegendFunction → "Frame", LegendLabel → "Datasets"], PlotLabel →
              StringJoin["Normalized Singular values for ", "A", ToString[numSVD]],
            AxesLabel \rightarrow {"i", "\lambda_i"},
            PlotStyle → {Automatic, Automatic, Automatic, Automatic, Black}(*,
            PlotMarkers→{Automatic, Automatic, Automatic, Automatic, Black}*)
           ], RasterSize → 750, ImageSize → 750]
         ] ×
         Print[
        , {numSVD, 2, 12}]
```

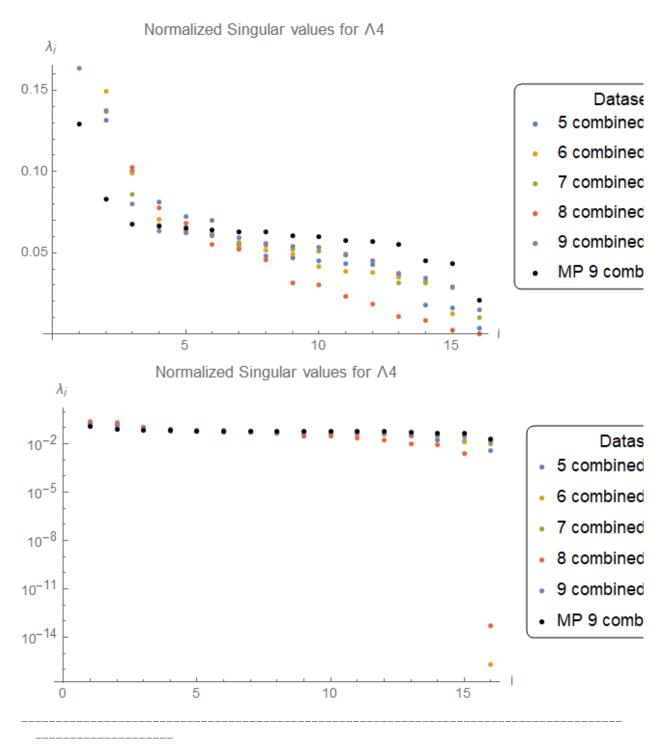
For the 2-th SVD, the Singular Values are:



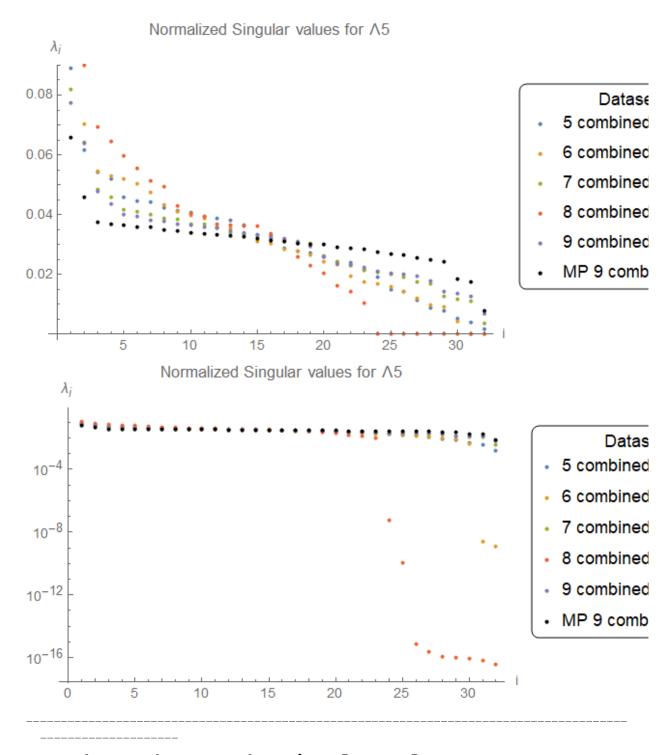
For the 3-th SVD, the Singular Values are:



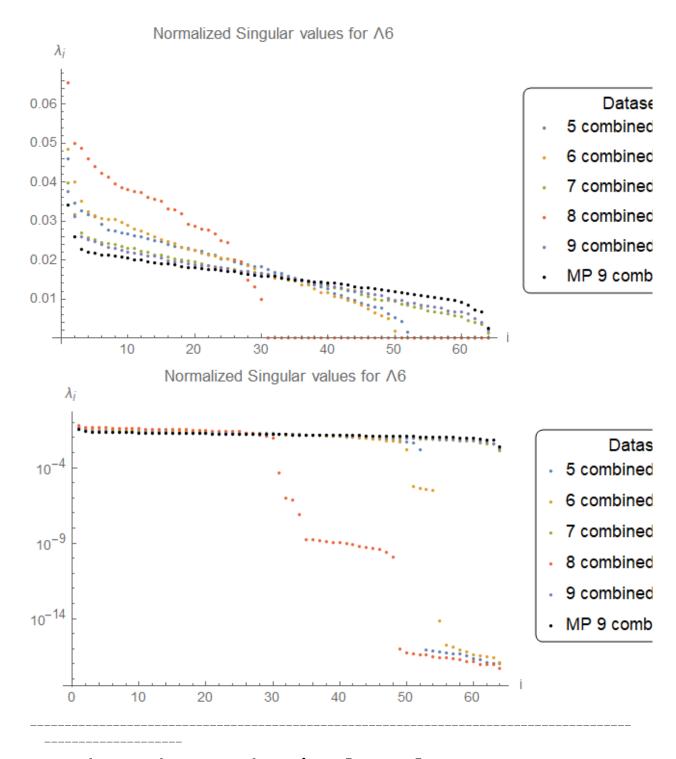
For the 4-th SVD, the Singular Values are:



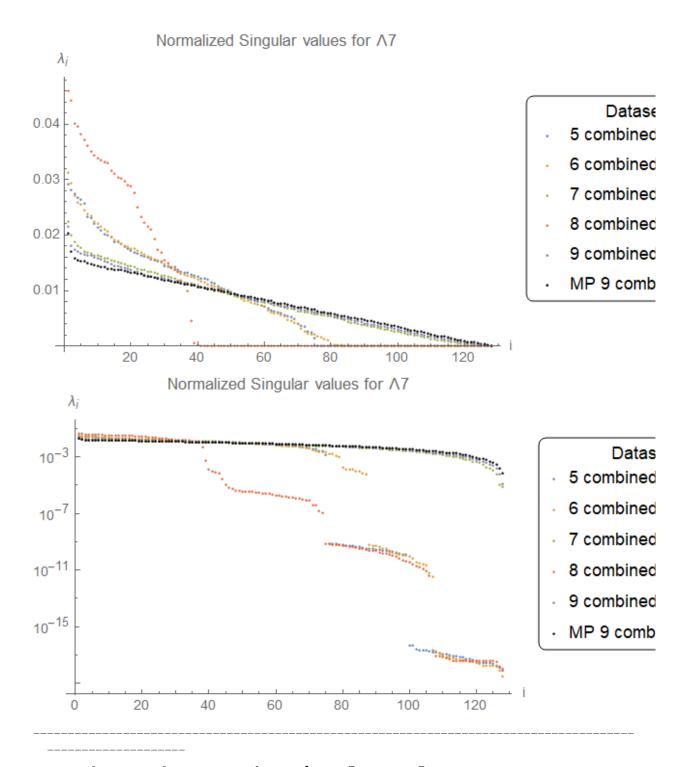
For the 5-th SVD, the Singular Values are:



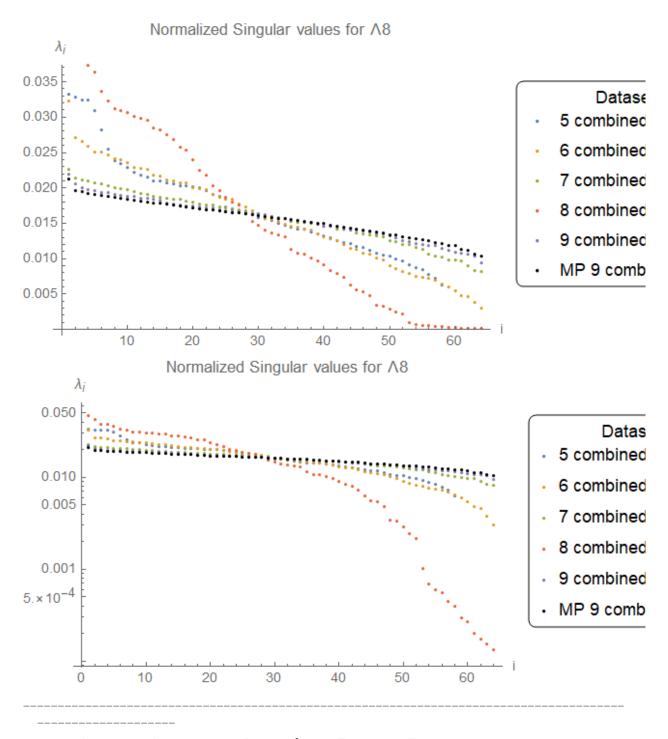
For the 6-th SVD, the Singular Values are:



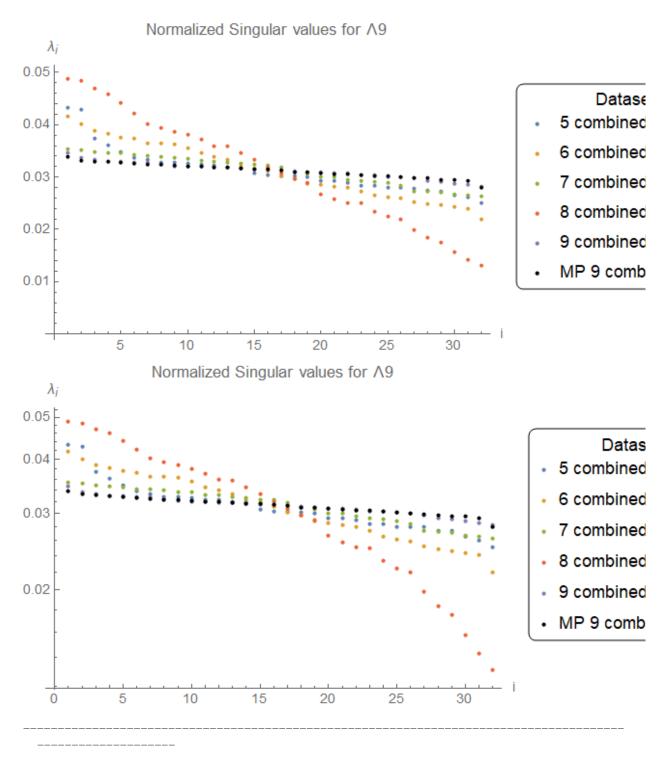
For the 7-th SVD, the Singular Values are:



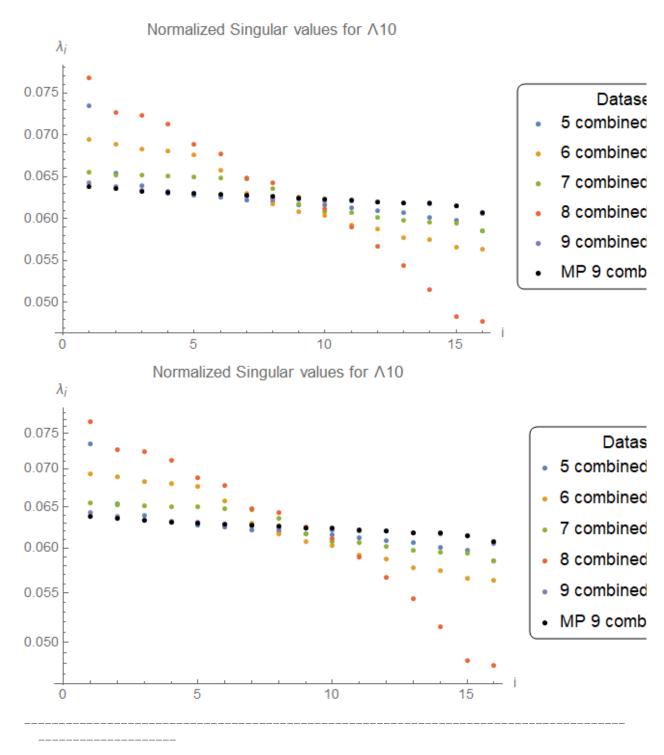
For the 8-th SVD, the Singular Values are:



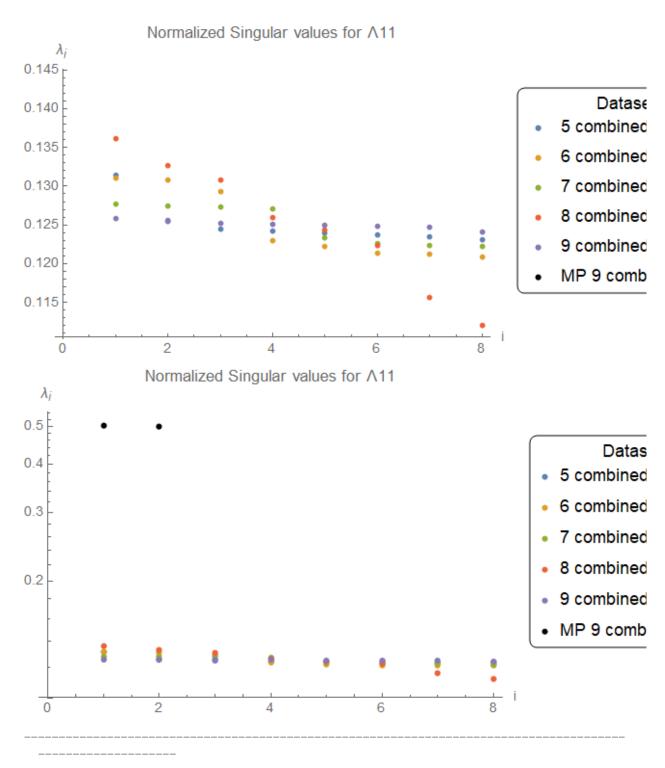
For the 9-th SVD, the Singular Values are:



For the 10-th SVD, the Singular Values are:



For the 11-th SVD, the Singular Values are:



For the 12-th SVD, the Singular Values are:

