Supplement: Structure-based Hamiltonian model for IsiA uncovers a highly robust pigment protein complex

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1 Focused view of chlorophylls 1-17

In the following we provide equivalent plots to Fig. 11 in the main text for all the other chlorophylls in the IsiA monomer.

Specifically, each plot shows how the leaking value is affected by random disorder of 2\% (histograms), as well as upon removal of the chlorophyll from the structure (vertical coloured lines). Both cases are indicated for cryogenic and room temperature. The leaking value of the native structure is represented by black vertical lines. Shaded area plots represent the leaking values of all shifted chlorophylls (i.e the accumulated results of all 17 graphs), scaled for simple viewing. The location of each chlorophyll in the complex is also indicated: PSI appears in red, IsiA in blue, and the respective chlorophyll in each monomer appears purple. For more details, see the main text and caption of Fig. 11.
Figure 1: Summary of chlorophyll 1.

Figure 2: Summary of chlorophyll 2.
Figure 3: Summary of chlorophyll 3.

Figure 4: Summary of chlorophyll 4.
Figure 5: Summary of chlorophyll 5.

Figure 6: Summary of chlorophyll 6.
Figure 7: Summary of chlorophyll 7.

Figure 8: Summary of chlorophyll 8.
Figure 9: Summary of chlorophyll 9.

Figure 10: Summary of chlorophyll 10.
Figure 11: Summary of chlorophyll 11.

Figure 12: Summary of chlorophyll 12.
Figure 13: Summary of chlorophyll 13.

Figure 14: Summary of chlorophyll 14.
Figure 15: Summary of chlorophyll 15.

Figure 16: Summary of chlorophyll 16.
Figure 17: Summary of chlorophyll 17.