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Supporting information for article:

Capturing structural changes of the S1 to S2 transition of photosystem II using time-resolved serial femtosecond crystallography

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Table S1 List of peak heights in the isomorphous difference maps.

	Absolute peak value of W665 (σ)			Absolute peak value of W601 (σ)			Maximum noise (σ)	1σ ($e^{-}/\text{\AA}^3$)
	A	B	Average	A	B	Average		
-50 ns, "light", 4.9 $\mu\text{l}/\text{min}$	7.4	6.3	6.9	6.3	4.1	5.2	4.2	0.018
-50 ns, "light", 7.3 $\mu\text{l}/\text{min}$	4.3	2.9	3.6	3.4	3.2	3.3	4.5	0.018
-50 ns, "light", 8.5 $\mu\text{l}/\text{min}$	5.4	3.5	4.5	1.8	2.7	2.3	4.1	0.019
-50 ns, "light", 9.8 $\mu\text{l}/\text{min}$	3.6	3.2	3.4	1.8	1.5	1.7	4.1	0.022
10 ms, light, 9.8 $\mu\text{l}/\text{min}$	12.4	10.8	11.6	7.4	7.3	7.4	4.3	0.019

A and B denote A- and B- monomers in the dimeric photosystem II.