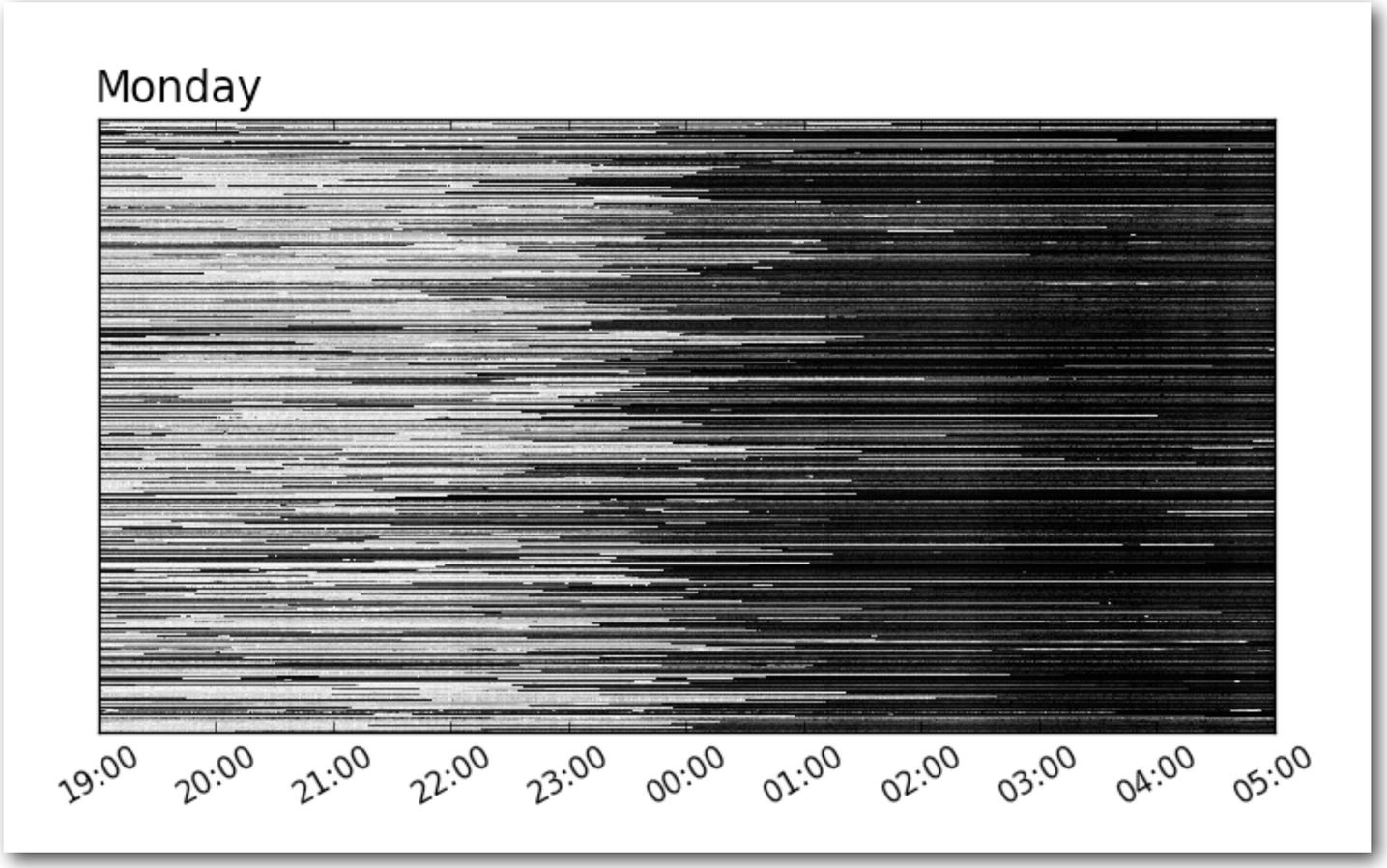
Identifying patterns of behavior



These light curves are reasonably unordered, but is there a discernible pattern hidden in the data?

For example, what if we were to order them according to their “final” off transition?

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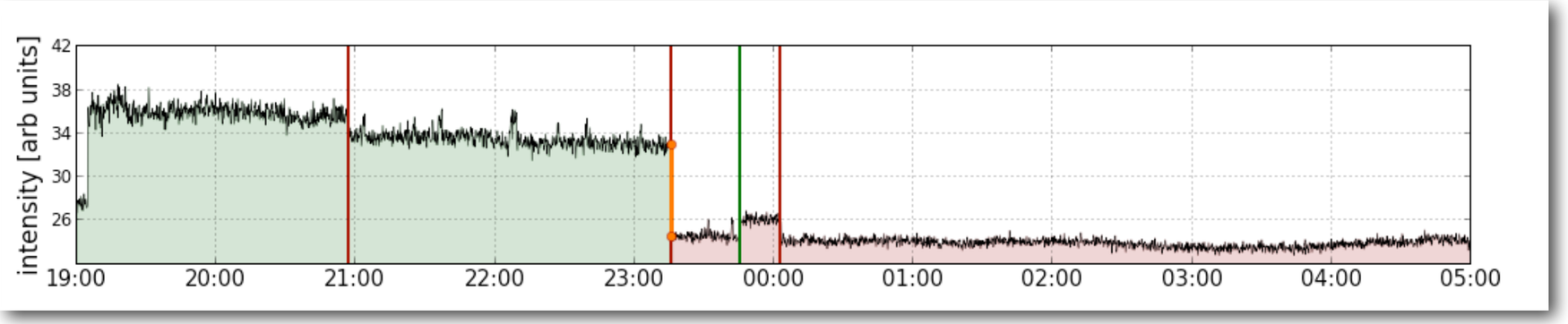
Selecting big off transitions



For each light curve that turns off at least once, there is an off transition for which

$$\delta = \langle I(t < t_{\text{off}}) \rangle - \langle I(t \geq t_{\text{off}}) \rangle$$

average brightness before — average brightness after

is a maximum; we define this as the "biggest" t_{off}.

It is important to keep in mind that:

- there may be other on/off transitions after the biggest t_{off}
- there is no **direct** implication of individual behavior

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