

## POSSIBLE DISINTEGRATION OF THE NUCLEUS OF COMET C/2024 S1 (ATLAS)

### CAPTION OF THE FIGURES

#### **Figure 1, Figure 2**

Images taken at Siding Spring Observatory on October 3, 2024, with the 1-m LCO telescope. A photometric cut through the nucleus (indicated with a dotted line) is superimposed on the original. The nucleus of comet C/2024 S1 is still observable.

#### **Figure 3, Figure 4**

Images taken at the South African Astronomical Observatory on October 8, 2024, with the 1-m LCO telescope. A photometric cut through the nucleus (indicated with a dotted line) is superimposed on the original. The nucleus of comet C/2024 S1 is no longer clearly observable, and the photometric pattern resembles that seen in the nuclear region of comet C/2019 Y4 (ATLAS) at the time of its breakup.