Illuminating the Dust: Probing G29-38's Debris Disk with Multi-Wavelength Photometry using PANIC

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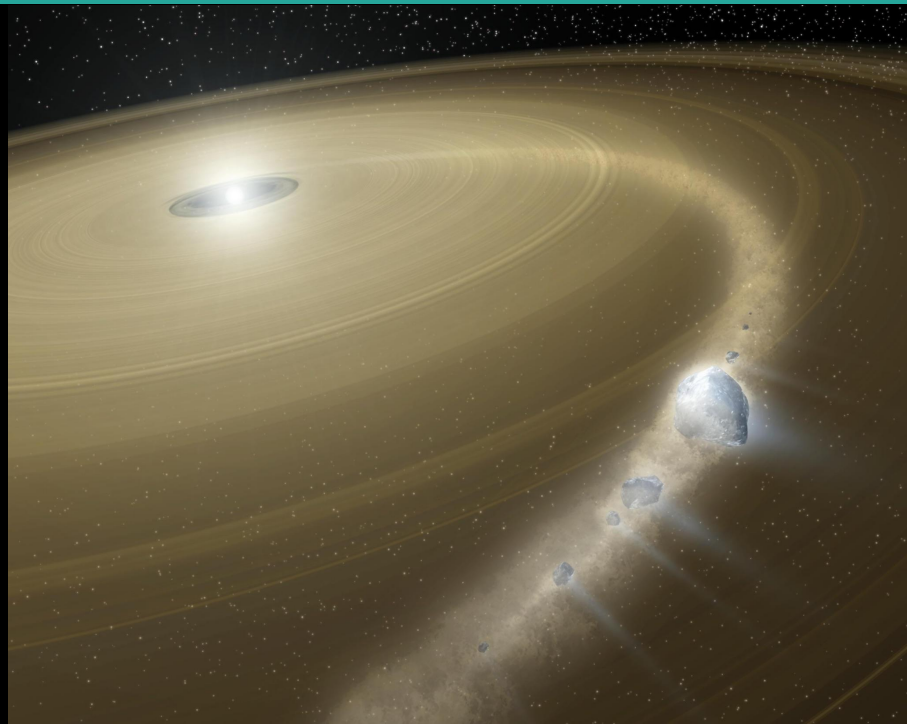

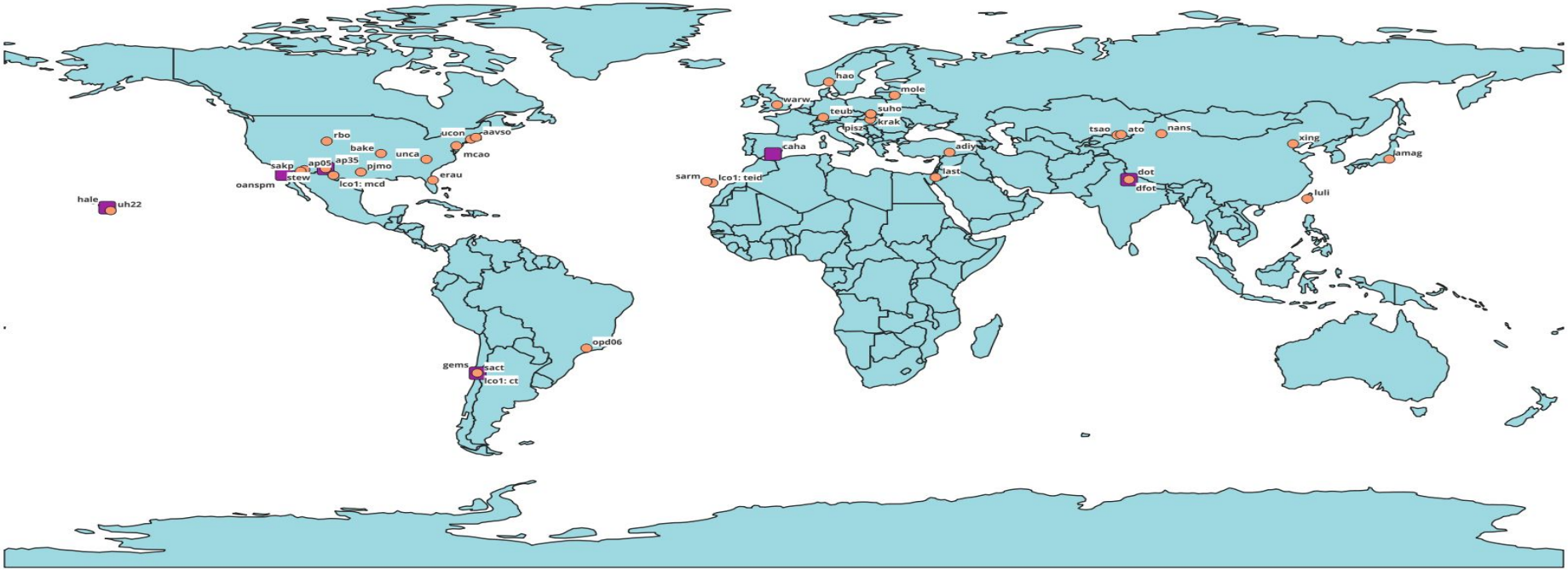
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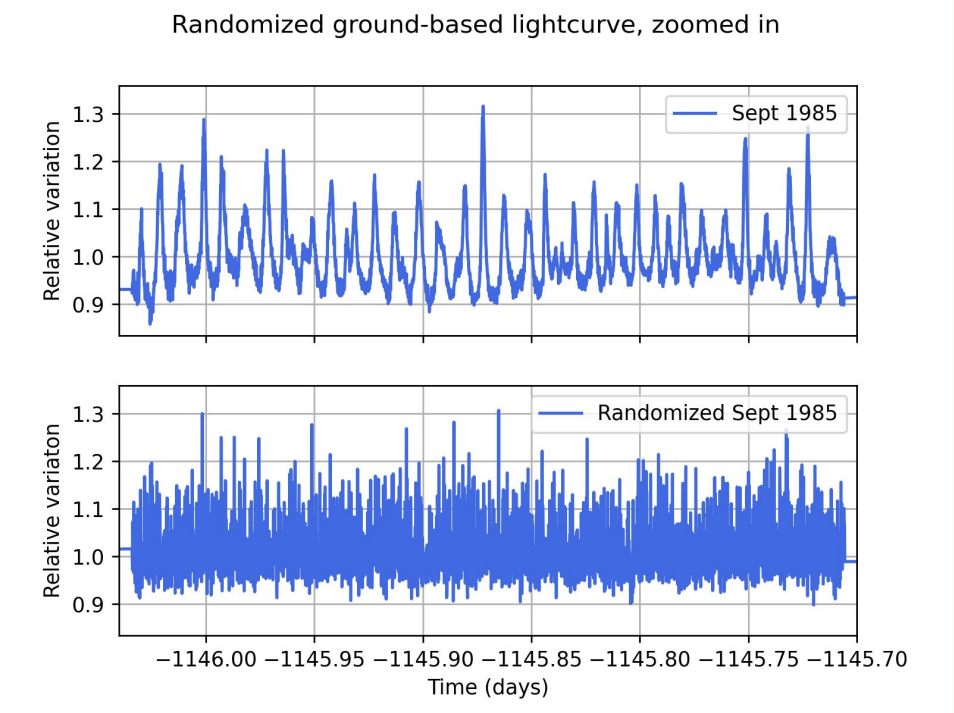
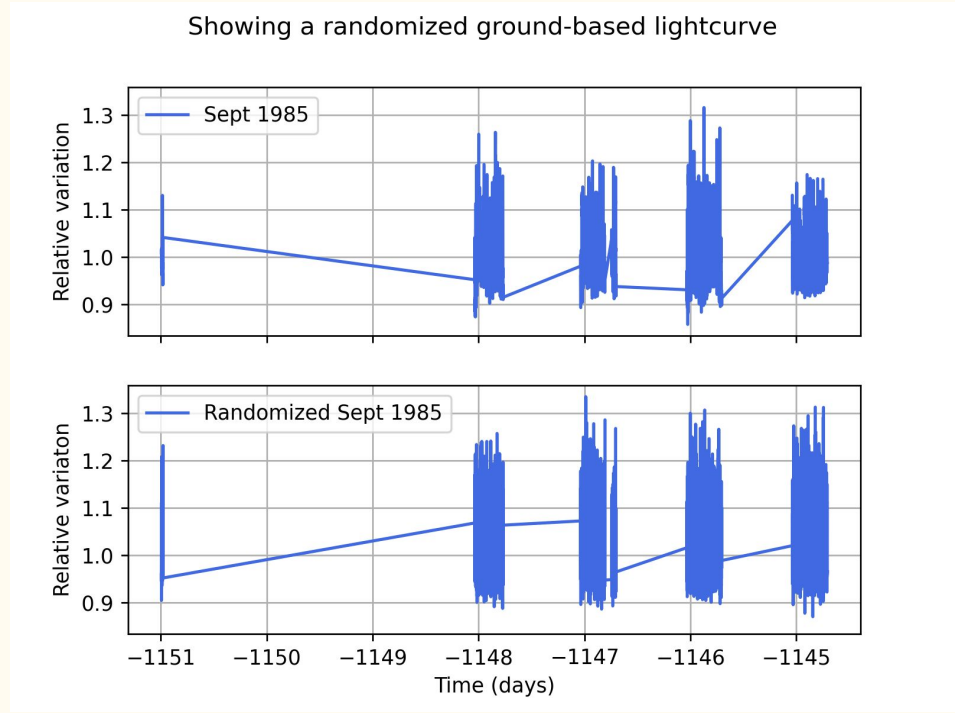
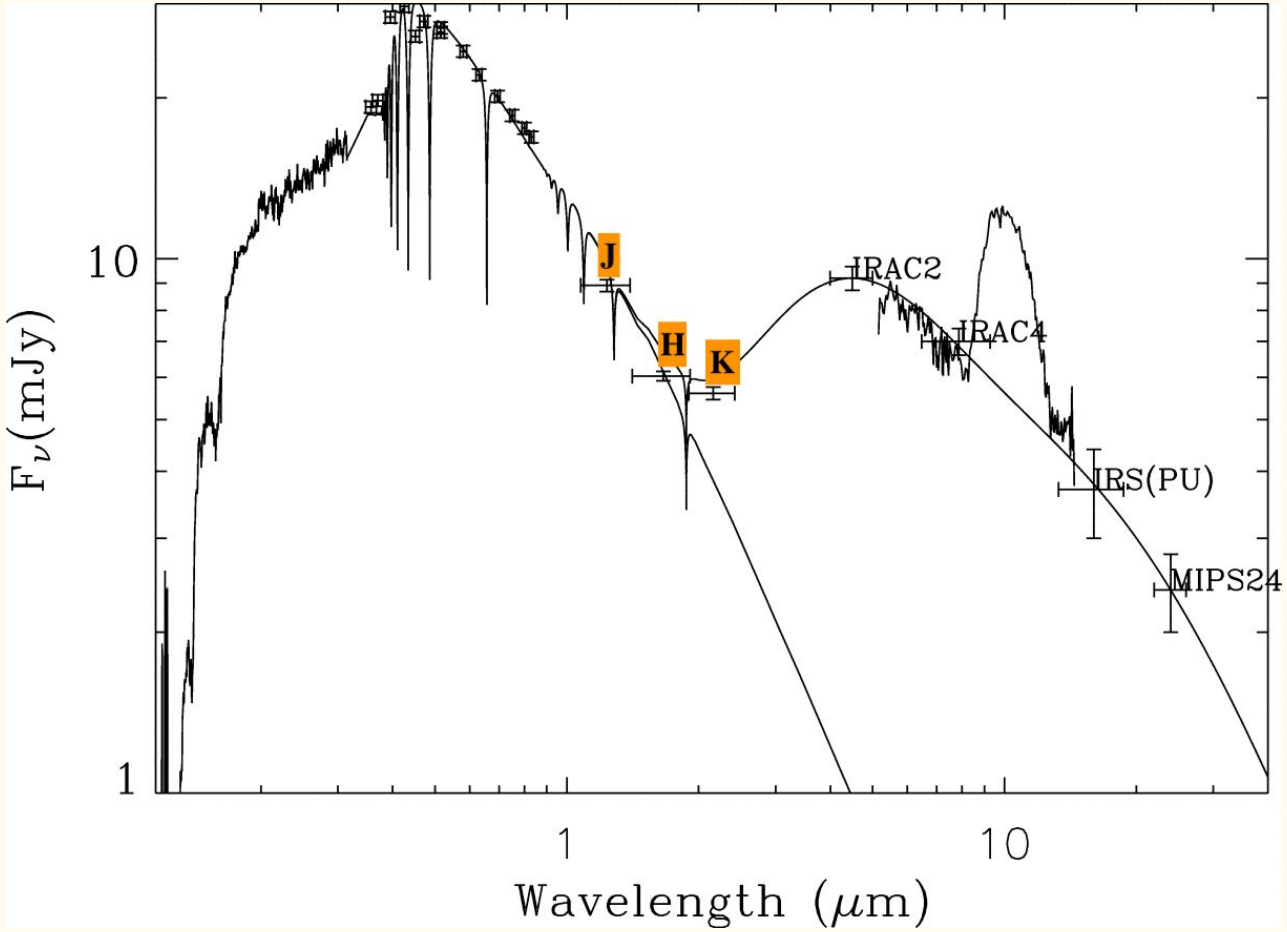
G29-38 pulsations





Why K band photometry?



PANIC K band Photometry

We have received 3 consecutive 2/3rds nights of observation scheduled between October 17th and October 19th.

G29-38 has a K band magnitude of 12.69, and will be above 30 degrees until roughly 3:30 am each night.

We are requesting continuous photometry of G29-38 using the **PANIC K filter** and **cntsr readout mode**

Exposure Set-up

We request that these PANIC exposures have **frame times of 10 seconds**, with the total exposure made of **3 frames**. Giving a **total exposure time of 30 seconds**.

From the PANIC Exposure Time Calculator, a 10 second exposure above 30 degrees (airmass below 2) gives a **signal-to-noise of 45.6**.

We request that all the **frames are saved** to give a 10 second sampling rate.