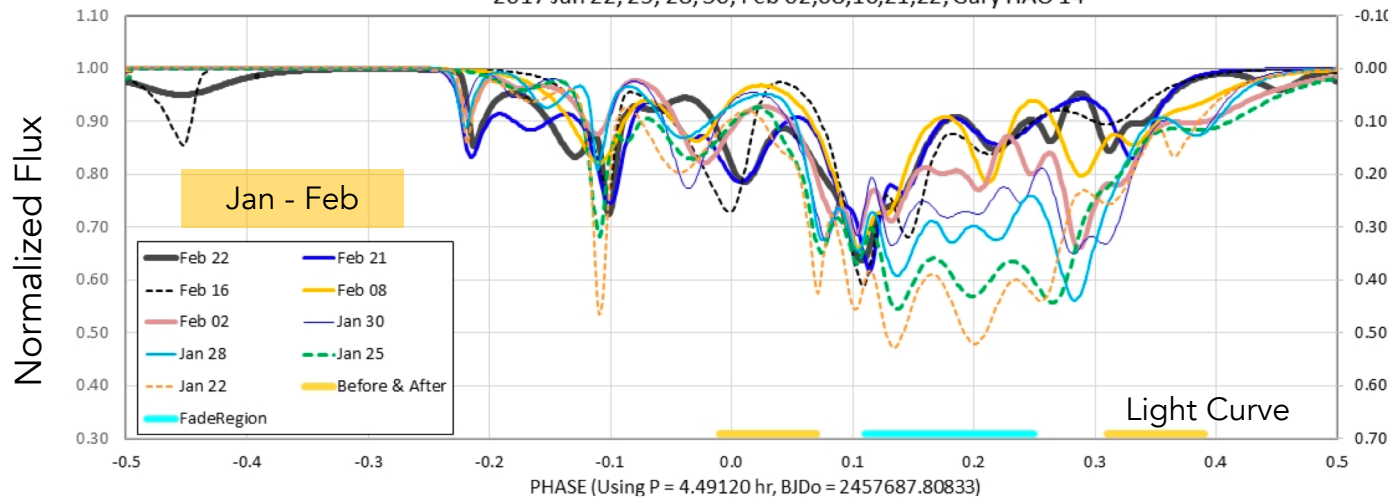


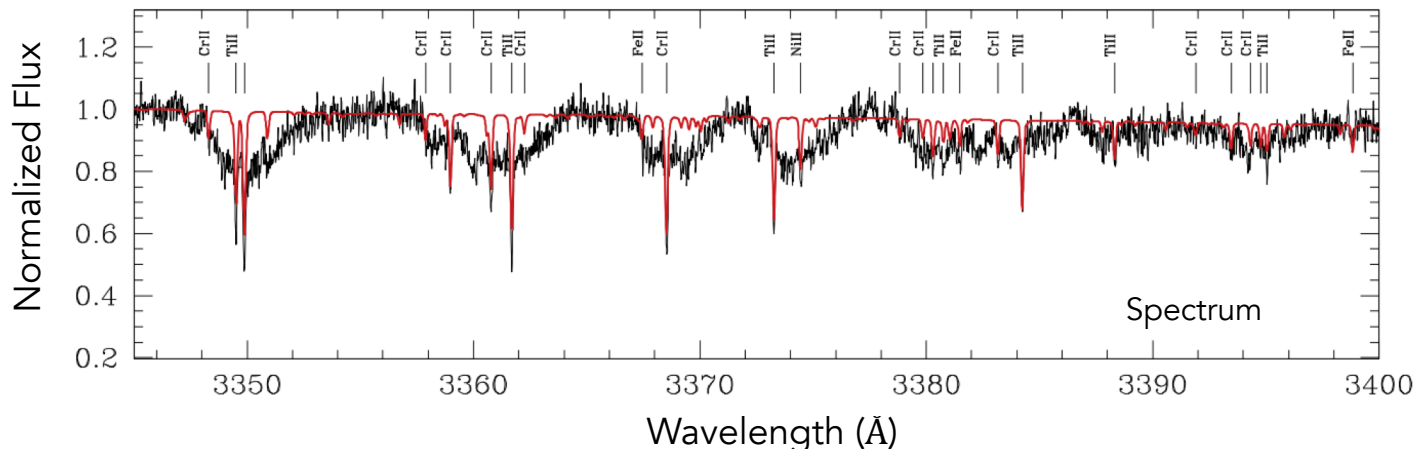
Circumstellar (CS) Gas around Polluted White Dwarfs

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Keck, HIRES, best fit model



Typical elements: C, N, O, Mg, Si, S, Ca, Fe, and Ni

Example: WD 1145+017

- Transiting planetesimal
- Rapid changes of circumstellar gas
- Accretion from differentiated rocky material

Rock sublimates and accretes onto the WD surface

- Models (to date) have not yet been able to link the CS species to the total atomic abundance in gas.
- We plan to use Cloudy to determine the CS gas abundance.