

Supplementary Materials for **Dust formation and wind acceleration around the aluminum oxide–rich AGB star W Hydrae**

Aki Takigawa, Takafumi Kamizuka, Shogo Tachibana, Issei Yamamura

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- fig. S1. Channel map of the ^{29}SiO for different velocities.
- fig. S2. Radial distribution of modeled ^{29}SiO emission.

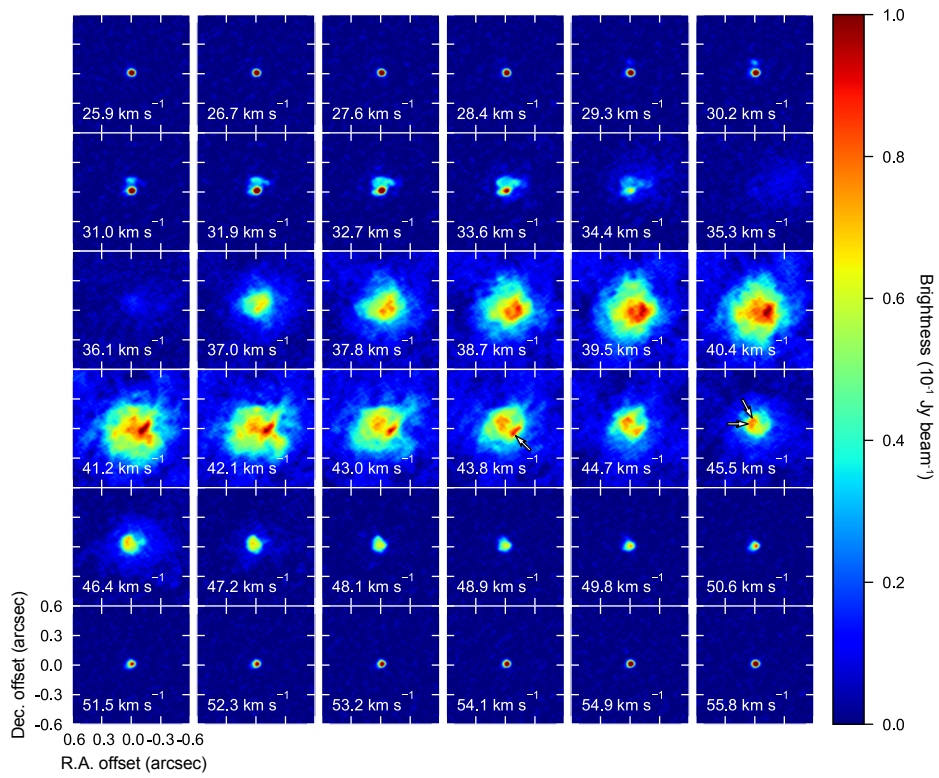


fig. S1. Channel map of the ^{29}SiO for different velocities. Three ^{29}SiO blobs are indicated by arrows.

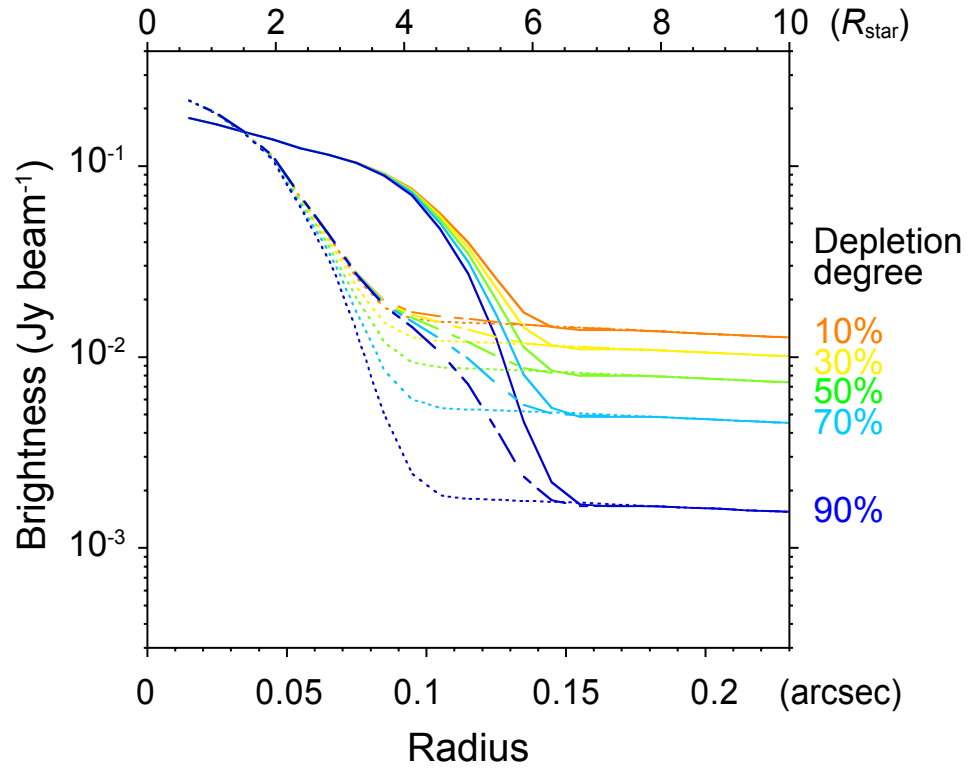


fig. S2. Radial distribution of modeled ^{29}SiO emission. Solid, dotted and dash-dotted curves show the modeled brightness for $(R_{\text{acc}}/R_{\text{star}}, R_{\text{cond}}/R_{\text{star}}) = (5, 5)$, $(2.5, 2.5)$ and $(2.5, 5)$, respectively. Colors represent different degrees of ^{29}SiO depletion (orange, yellow, light green, light blue, and blue represent depletion degrees of 10%, 30%, 50%, 70%, and 90%, respectively).