



# The Recurrent Nova RS Oph

RS Oph nova erupts every 1-3 decades. Mass loss from M0/2-red giant onto white dwarf surface leads to nuclear fusion and the eruption. **Interesting analog to Type Ia supernovae.** 2021 eruption well covered by **IRTF/SpEx-SXD+LXD**:

- **Pre-eruption:** red-giant plus **wind** emission lines due to white dwarf illumination
- **Eruption:**
  - Flash ionization of **wind** to 8900 K
  - **Coronal emission** lines at  $10^6$  K detected within 1<sup>st</sup> month: reverse shock heats ejecta
- **Post-eruption:** M-giant possibly cooler

