

Novae Comprehensive Spectral Analysis

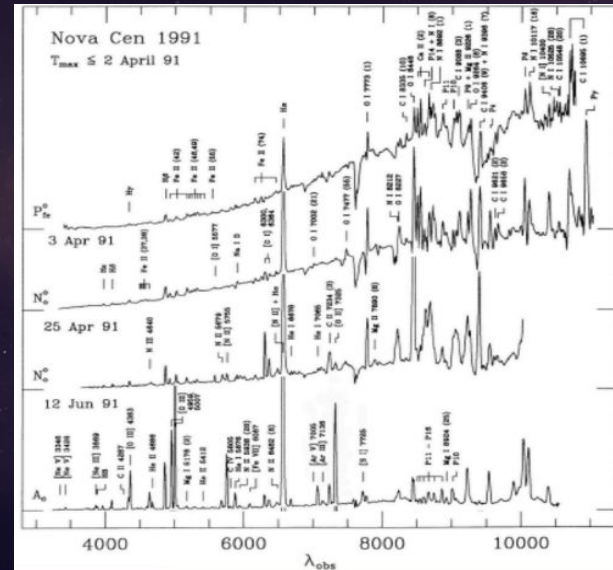
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Nova Synthetic Data Base:

- Post-eruption novae spectral grid spanning an **unprecedented range** of physical parameters.
- **3D models** built with *RAINY3D* photoionization code (uses *Cloudy* as a radiative transfer subroutine).

Aiming to construct an (PCA and IA-driven) algorithm for rapid **diagnosis** of physical conditions in cataclysmic variables and **evolution prediction** with **spectroscopic data**.

Important tool to understand the long-term evolution of these systems to **Type-IA SN** and their contribution to interstellar medium **chemical enrichment**.



Spectral evolution of Nova Cen 1991