

## **The S-Dor phenomenon in Luminous Blue Variables**

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While Luminous Blue Variables have been classically thought to be rapidly evolving massive stars in the transitory phase from O-type to Wolf-Rayet stars, recent studies have suggested that LBVs might surprisingly explode as a core-collapse supernova. Such a striking result highlights that the evolution of massive stars through the LBV phase is far from being understood. LBVs exhibit photometric, spectroscopic, and polarimetric variability on timescales from days to decades, probably caused by different physical mechanisms. I will present the latest results on the long-term S Dor-type variability of LBVs, in particular regarding the role of rotation. I will discuss how these recent results put strong constraints on the progenitor, current evolutionary stage, and fate of LBVs.