## Silicon carbide in a protoplanetary disc: the peculiar case of SVS13

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We report the detection of silicon carbide, amongst other materials such as amorphous silicates, crystalline forsterite, crystalline enstatite, and annealed SiO<sub>2</sub>, in the circumstellar environment of the low-mass, embedded pre-main-sequence close binary system SVS13. These dust species are clearly detected in absorption and SiC is required to model adequately both N-band (8–13  $\mu$ m) total intensity and polarisation spectra. SVS13 is the first young star ever to have been associated with the dust component which has so far only been detected in the spectra of C-rich evolved star atmospheres. The uniqueness of the spectrum suggests that we are either catching SVS13 in a short-lived evolutionary phase and/or that there is something special about this object. We are now embarking on the search for similar sources in order to gain clearer insight into the mechanism behind the very unusual spectrum.