ISO observations of the classical nova V705 Cas

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Abstract

We present observations of Nova Cas 1993 (V705 Cas) obtained with ISO. We have detected the [O IV] fine structure line at 26 μm and [C II] at 157 μm. Preliminary analysis suggest that elemental abundances similar to those in the ejecta of DQ Her, and a hot ($\sim$700 000 K) stellar remnant, are consistent with the ISO observations. The dust shell, which was prominent in the near infrared in ground-based observations, was not detected by ISO, unless the stellar remnant had 'switched off' by the time of the ISO observations. On the other hand, we may have detected a pre-existing dust shell.