

Erratum

On the frequency of the CS ($J: 2 \rightarrow 1$) and ($J: 5 \rightarrow 4$) transitions*

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Abstract. Several misprints have appeared in the original paper (Pagani, L., Gallego, A. T., & Apponi, A. J. 2001, A&A, 380, 384) concerning the frequencies of CS and the quantum numbers of SO. Corrections are given here.

1. The CS ($J: 5 \rightarrow 4$) frequency is wrong in Table 1 and Fig. 2 of the original paper while the frequency discussed in the text remains correct. The frequency to be read is 244935.55 instead of 244953.55 MHz.
2. The C³⁴S ($J: 3 \rightarrow 2$) frequency is wrong in Table 1. The right value is 144617.110 instead of 144671.110 MHz.
3. The SO J and N quantum numbers have been inverted throughout the paper and are now in the right order in Table 1.

Table 1. Observational parameters.

Molecule	Transition	Frequency (MHz)	Vel. resol. ^a (m s ⁻¹)	Beam size (arcsec)
CCS ^I	$J_N: 8_7 \rightarrow 7_6$	93870.107	31	25
C ³⁴ S	$J: 2 \rightarrow 1$	96412.950	38	60
C ³⁴ S ^I	$J: 2 \rightarrow 1$	96412.950	60	24
³⁴ SO	$J_N: 3_2 \rightarrow 2_1$	97715.388	37	60
C ³² S	$J: 2 \rightarrow 1$	97980.950	37	60
C ³² S ^I	$J: 2 \rightarrow 1$	97980.950	30/60	24
C ¹⁸ O	$J: 1 \rightarrow 0$	109782.163	33	54
³² SO	$J_N: 4_3 \rightarrow 3_2$	138178.648	26	44
C ³⁴ S	$J: 3 \rightarrow 2$	144617.110	50	41
C ³² S	$J: 3 \rightarrow 2$	146969.033	25	41
C ³² S ^I	$J: 5 \rightarrow 4$	244935.55	24	12

^a Final velocity resolution for data display.
¹ IRAM 30-m telescope, NRAO 12-m otherwise.

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* Based on observations made with the Iram 30-m and the formerly-owned NRAO Kitt Peak 12-m.

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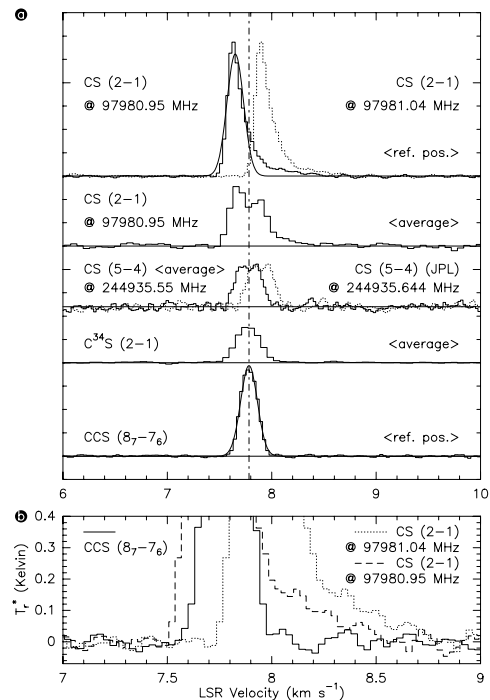


Fig. 2. L1498 spectra. **a)** As in Fig. 1, Y scale is arbitrary. Tentative Gaussian fits are displayed for the reference position spectra. The CS line profile deviates significantly from Gaussian and is closer to a triangular shape. The CS ($J: 2 \rightarrow 1$) line average is a selection of 4 positions in the map with double peak structure while the CS ($J: 5 \rightarrow 4$) and C³⁴S ($J: 2 \rightarrow 1$) have been averaged over the entire map. **b)** Enlargement of the bottom part of the CCS and CS lines (ref. pos.). The Y scale is identical for both lines