





## HIFI Spectral Scan of IRAS 15194-5115: a sneak peek

## Elvire De Beck<sup>1</sup>, M. Maercker<sup>2</sup>, H. Olofsson<sup>3</sup>, S. Ramstedt<sup>4</sup>, L. Decin<sup>5,6</sup>

<sup>1</sup>Max-Planck-Institut für Radioastronomie, Bonn, Germany, <sup>3</sup>Onsala Space Observatory, Sweden, <sup>4</sup>Uppsala University, Sweden, <sup>5</sup>Instituut voor Sterrenkunde, KULeuven, Belgium, <sup>6</sup>Astronomical Institute "Anton Pannekoek", Amsterdam, The Netherlands



5	Peak intensity ratios	
8	3.0 - 4.5	
-19	1.2 - 5.3	
10	1.3 - 2.7	

Data

The data were retrieved from the Herschel Science Archive (HSA), inspected, and deconvolved after rejecting bad scans. Some parts of the spectrum - mainly bands 3b, 4a, and 4b - currently suffer from high noise and/or bad baseline stability. This will be dealt with in further careful data reduction steps.

At first glance, ~20 species, such as CO, HCN, CS, SiS, SiO, and several of their isotopologues can be identified.

Figure: The full HIFI survey of IRAS 15194-5115 with insets of selected lines of C[I], NH<sub>3</sub>, H<sub>2</sub>O, CO, <sup>13</sup>CO, HCN, and  $H^{13}CN$ .



Contact

Elvire De Beck edebeck@mpifr.mpg-bonn.de Max-Planck-Institut für Radioastronomie Auf dem Hügel, 69 53121 Bonn, Germany