Ethylamine is one of the molecules that exhibits a challenging combination of two low frequency motions: inversion and internal rotation. The separation between these modes is fortunately appreciably greater than in the lighter methyleamine, and the cm-wave rotational spectra of anti-ethylamine\textsuperscript{a} and gauche-ethylamine\textsuperscript{b} have been assigned some time ago. Recent astrophysical interest prompted laboratory investigation of anti-ethylamine up to 270 GHz and an associated astronomical search for this species in Sgr B2(N).\textsuperscript{c}

We report extensive new coverage of the rotational spectrum of ethylamine obtained in the form of three broadband segments, each recorded by using a different instrumental technique. The spectrum in the 115-376 GHz region was obtained with the FASSST spectrometer,\textsuperscript{d} at 555-650 GHz by using cascaded harmonic multiplication from a cm-wave synthesizer, and at 867-1081 GHz by also using FASSST, but with frequency tripled output from a 300 GHz-region BWO oscillator. The spectrum is at an advanced stage of analysis, carried out by means of the graphical assignment AABS package,\textsuperscript{e} and results obtained for both anti- and gauche-ethylamine are presented.

\begin{thebibliography}{9}
\bibitem{a}E.Fischer, E.Botskor, \textit{J. Mol. Spectrosc.}, 91, 116-127 (1982).
\bibitem{d}I.Medvedev et al., \textit{J. Mol. Spectrosc.}, 228, 314-328 (2004).
\bibitem{e}Z.Kisiel et al., \textit{J. Mol. Spectrosc.}, 233, 231-243 (2005).
\end{thebibliography}