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Analysis of the absorption spectrum of  $^{12}\text{CH}_4$  in the region 5855-6250  $\text{cm}^{-1}$  of the  $2\nu_3$  band

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## Highlights

- $^{12}\text{CH}_4$  line list at 296 K is theoretically modeled in the 5855-6250  $\text{cm}^{-1}$  region.
- 3277  $^{12}\text{CH}_4$  experimental line positions are reproduced with a 0.0015  $\text{cm}^{-1}$  *rms*.
- 2381  $^{12}\text{CH}_4$  experimental line intensities at 296 K are modeled with 8.1% *rms*.
- The new assignments are included in the WKLMC list for natural methane at 296 K

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