### **Accepted Manuscript**

Analysis of the absorption spectrum of  $^{12}CH_4$  in the region 5855-6250 cm $^{-1}$  of the  $2\nu_3$  band

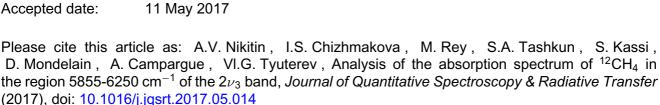
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#### ACCEPTED MANUSCRIPT

## Highlights

- <sup>12</sup>CH<sub>4</sub> line list at 296 K is theoretically modeled in the 5855-6250 cm<sup>-1</sup> region.
- 3277 <sup>12</sup>CH<sub>4</sub> experimental line positions are reproduced with a 0.0015 cm<sup>-1</sup> rms.
- 2381  $^{12}$ CH<sub>4</sub> 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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