



Bibiana Prineth

An atlas of resolved spectral features in the transmission spectrum of WASP-189 b with MAROON-X

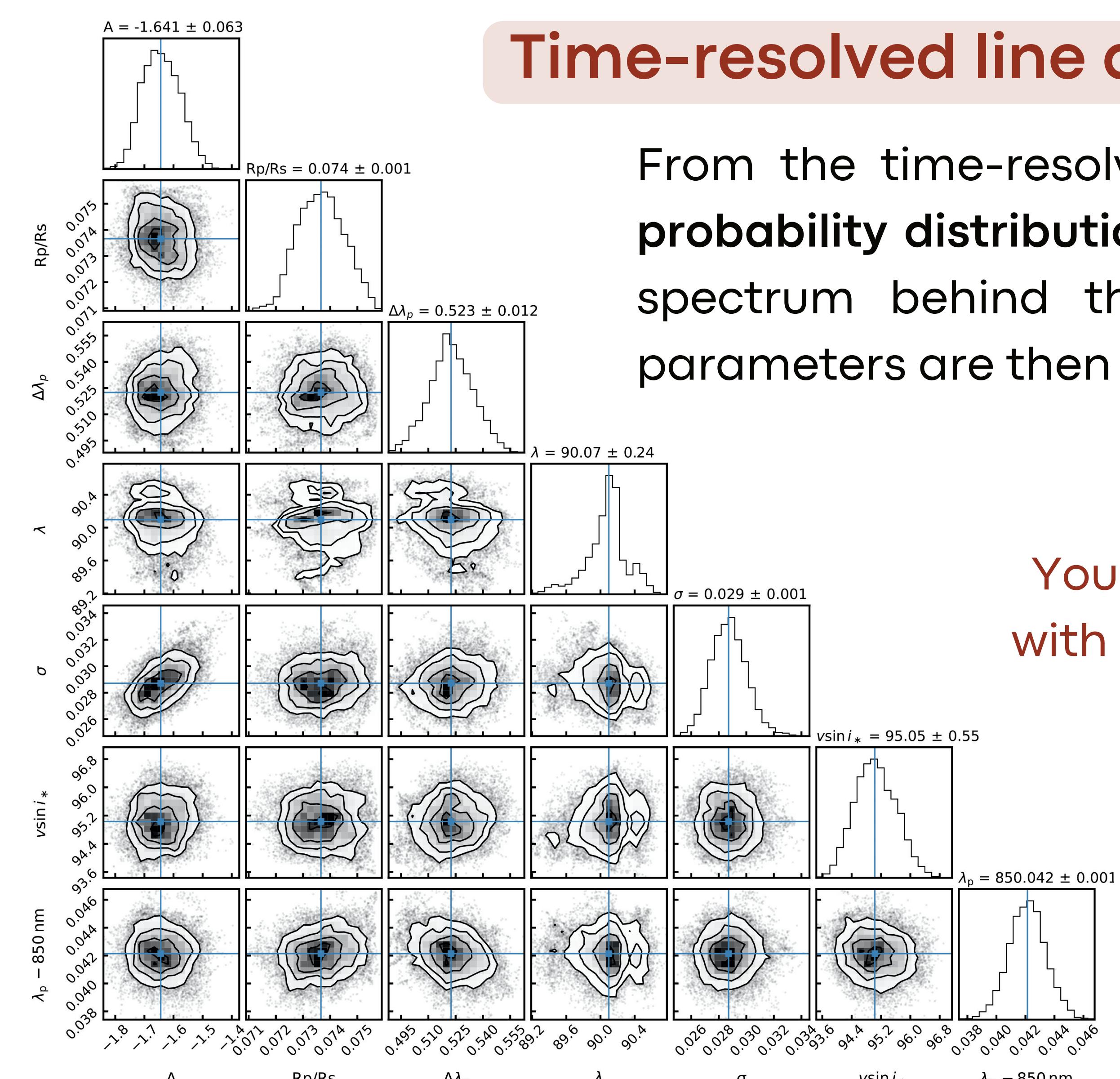
[B. Prineth](#), H. J. Hoeijmakers, B. M. Morris, M. Lam, D. Kitzmann, E. Sedaghati, J. V. Seidel,
E. K. H. Lee, B. Thorsbro, N. W. Borsato, Y. C. Damasceno, S. Pelletier, A. Seifahrt

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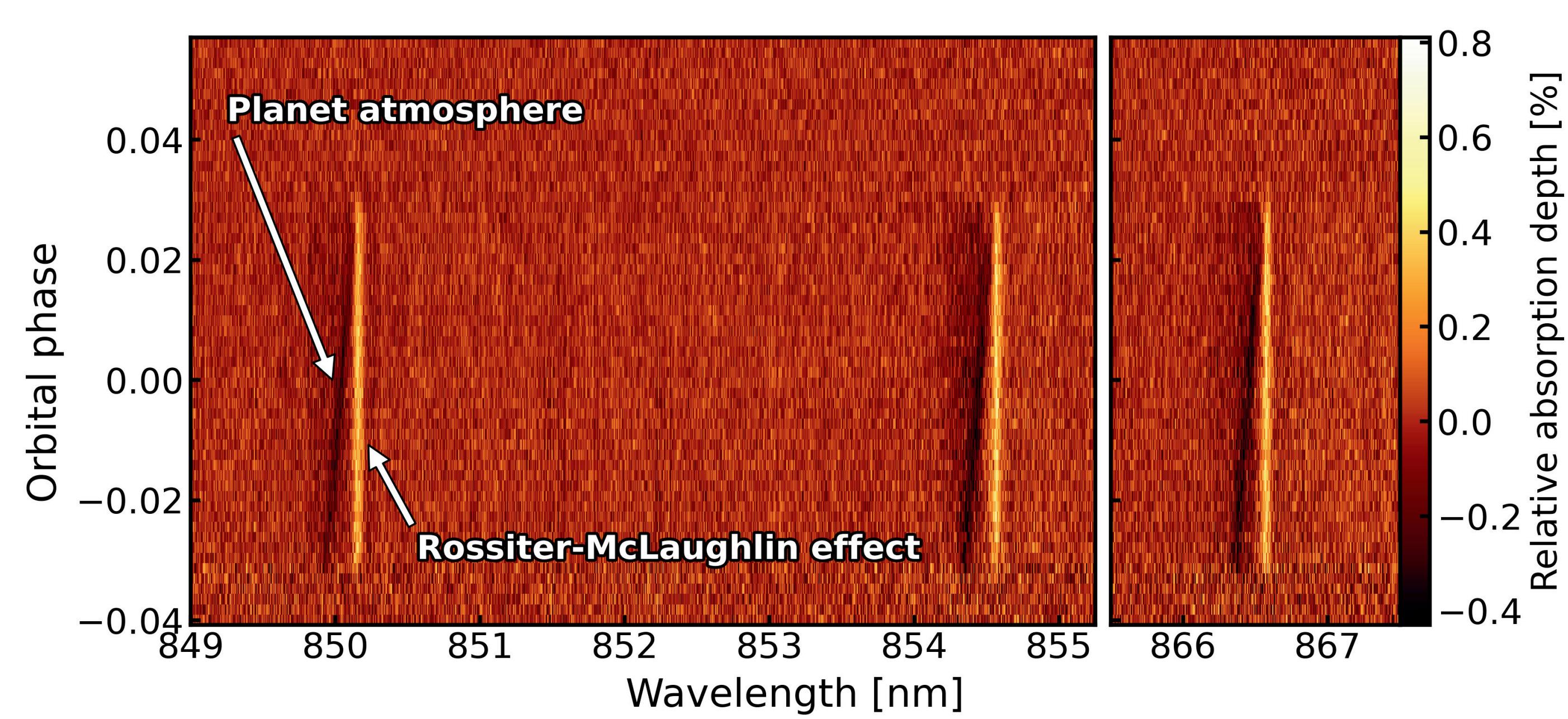
Narrow-band spectroscopy of strong absorption lines

We observed two transits of the ultra-hot Jupiter WASP-189 b with MAROON-X on Gemini-North to probe its high-altitude atmospheric layers, using strong absorption lines, in particular, Fe, Fe+, Ca+, Ba+, Na, Ha, and Mg.

Time-resolved line absorption to infer stellar and planetary parameters



You can try this
with [StarRotator!](#)



A treasure chest full of absorption lines for the community to use as a benchmark

These high signal-to-noise observations of WASP-189 b provide a benchmark data set for testing high-resolution retrievals and the assumptions of atmospheric models.

