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Underresolved absorption spectroscopy of OH radicals in flames using broadband UV LEDs

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Highlights

- A broadband UV LED absorption diagnostic has been developed and described.
- The technique uses underresolved spectral measurements.
- It is demonstrated for combustion applications in premixed methane/air flames.
- An uncertainty model for underresolved spectroscopy is applied.
- The correlated nature of simultaneous property measurements is discussed.

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