

Accepted Manuscript

On the modelling of the filtered radiative transfer equation in large eddy simulations of lab-scale sooting turbulent diffusion flames

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PII: S0022-4073(18)30382-0
DOI: <https://doi.org/10.1016/j.jqsrt.2018.09.020>
Reference: JQSRT 6224



To appear in: *Journal of Quantitative Spectroscopy & Radiative Transfer*

Received date: 24 May 2018
Revised date: 4 September 2018
Accepted date: 23 September 2018

Please cite this article as: Jean-Louis Consalvi , Fatiha Nmira , Wenjun Kong , On the modelling of the filtered radiative transfer equation in large eddy simulations of lab-scale sooting turbulent diffusion flames, *Journal of Quantitative Spectroscopy & Radiative Transfer* (2018), doi: <https://doi.org/10.1016/j.jqsrt.2018.09.020>

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Highlights

- Filtered absorption and emission terms in sooting turbulent jet flames are studied
- Filtered radiative quantities are computed from stochastic space and time series
- The SGS radiative absorption can be disregarded whatever the filter size
- The effects of SGS fluctuations on the filtered emission term have to be modelled

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