



## Isotropic collision-induced light scattering by gaseous

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Titre	Isotropic collision-induced light scattering by gaseous
Type de publication	Article de revue
Auteur	Elliasmine, A. [1], Godet, Jean-Luc [2], Le Duff, Yves [3], Bancewicz, Tadeusz [4]
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Résumé en anglais	The binary isotropic collision-induced scattering spectra of the gaseous tetrafluoromethane has been measured in absolute units in the 50–150 cm <sup>-1</sup> frequency range. Corresponding theoretical intensities taking into account multipolar polarizabilities have been calculated in a semiclassical way. From a comparison with experiment, the independent components of dipole-quadrupole and dipole-octupole polarizability tensors have been estimated. They have been compared with those previously deduced from depolarized spectrum and with recent theoretical ab initio calculations.
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Titre abrégé	Phys. Rev. A

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### Liens

[1] [http://okina.univ-angers.fr/publications?f\[author\]=23892](http://okina.univ-angers.fr/publications?f[author]=23892)

[2] <http://okina.univ-angers.fr/jl.godet/publications>

[3] [http://okina.univ-angers.fr/publications?f\[author\]=23828](http://okina.univ-angers.fr/publications?f[author]=23828)

[4] [http://okina.univ-angers.fr/publications?f\[author\]=8568](http://okina.univ-angers.fr/publications?f[author]=8568)

[5] <http://okina.univ-angers.fr/publications/ua13948>

[6] <http://dx.doi.org/10.1103/PhysRevA.55.4230>

[7]

[http://www.researchgate.net/publication/234053586\\_Isotropic\\_collision-induced\\_light\\_scattering\\_by\\_](http://www.researchgate.net/publication/234053586_Isotropic_collision-induced_light_scattering_by_)

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