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Title: Molecular dispersion in pre-turbulent and sustained turbulent flow of carbon dioxide

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Dispersion in pre- and sustained turbulent flow regimes is studied in carbon dioxide

The dispersion coefficients of small molecules are estimated from the Golay theory

Dispersion in pre-turbulent flow is 2-6 times larger than bulk diffusion

Dispersion in sustained turbulent flow is 10^4 - 10^5 larger than bulk diffusion

The general Golay theory is not valid under sustained turbulent flow regime

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