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Characterising turbulence in large scale structures with X-ray satellites.

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Understanding the baryonic processes taking place in the large scale structures of the Universe is essential both if we want to understand structure formation and the biases they may induce in cosmological studies (e.g. σ_8 or ω_m). Among those processes, turbulent motions that are induced at various scales, for instance by AGN jets or accretion of matter from intergalactic filaments, are crucial. At those scales, turbulence can potentially be tracked through the X-ray emission & absorption of the gas. We will present our results on the detectability of turbulent motions on the largest scales of the Universe that future X-ray satellites may offer.

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