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Exploring the X-ray filamentary structure in Frontier Fields Cluster MACSJ0717.5+3745

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We present the results of Chandra and XMM-Newton X-ray imaging and spatially-resolved spectroscopy of the filament in MACSJ0717.5+3745, an intermediate redshift (z=0.5458) and exceptionally massive (3.5 +/- 0.6 * 10^15 solar masses) Frontier Fields cluster experiencing multiple mergers. Tight constraints placed on the thermodynamical properties of the filament are acquired using a joint fitting of spectra using nested parameter sampling within a Bayesian framework.

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