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Chandra observation of the tail of ESO 137-002

We present the analysis of a deep Chandra observation of the tail associated with a late type galaxy–ESO 137-002 in A 3627. The tail is very narrow with a nearly constant width. Spectral analyses show that the gas in the tail has a nearly constant temperature throughout it. X-ray emission is enhanced to 2 sigma level at the position of the secondary H alpha tail revealed by SOAR. Comparisons are made between the tail of ESO 137-002 and the tails of ESO 137-001 studied in our previous work. Both the similarities and diversities bring challenges to current simulations.

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