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# X-ray observations of the physics in galaxy clusters

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Galaxy clusters are the ideal locations to study the interplay between active galactic nuclei, hot and cold baryons, dark matter and cluster mergers. X-ray observations are very powerful to study these physical processes, as they let us directly see the hot baryons, the dominant baryonic component. I will review what deep X-ray observations have shown us about feedback in the cores of galaxy clusters. In addition, I will discuss what observations tell us about processes in the intracluster medium, such as sloshing and enrichment. Finally, I will highlight advances future X-ray observatories could bring.

## Topic

Hot and diffuse baryons

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