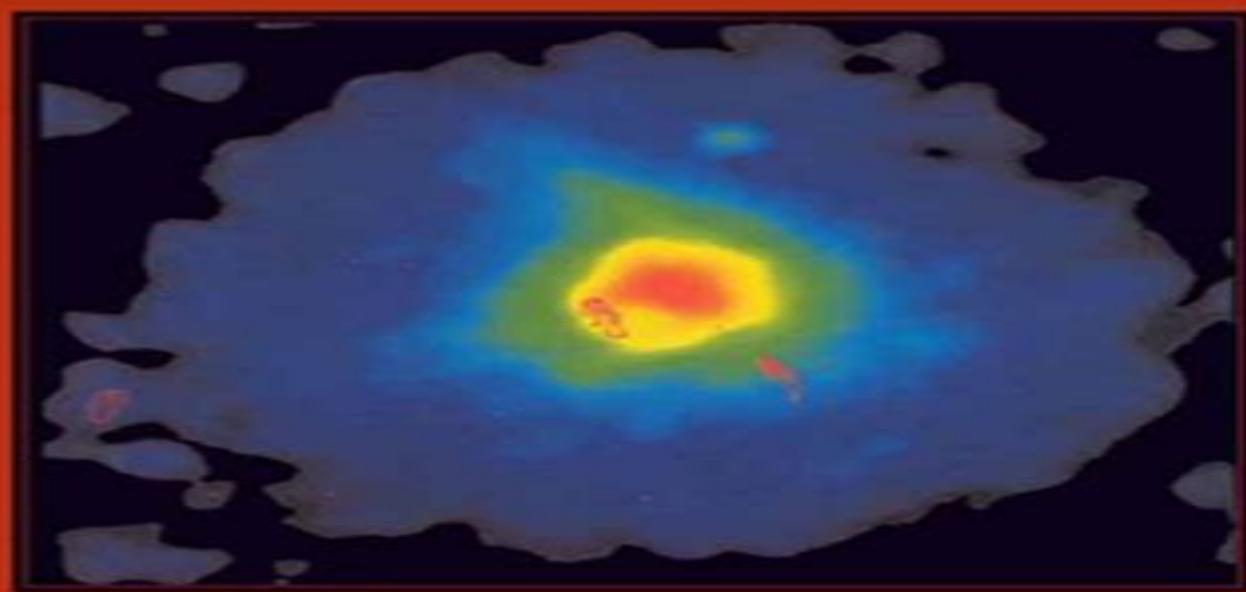


MERGING PROCESSES IN GALAXY CLUSTERS

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Merging Processes In Galaxy Clusters

Steven Michael Crawford

Merging Processes In Galaxy Clusters:

Merging Processes in Galaxy Clusters L. Feretti, I.M. Gioia, G. Giovannini, 2006-04-18 Mergers are the mechanisms by which galaxy clusters are assembled through the hierarchical growth of smaller clusters and groups. Major cluster mergers are the most energetic events in the Universe since the Big Bang. Many of the observed properties of clusters depend on the physics of the merging process. These include substructure, shock, intra cluster plasma, temperature and entropy structure, mixing of heavy elements within the intra cluster medium, acceleration of high energy particles, formation of radio halos and the effects on the galaxy radio emission. This book reviews our current understanding of cluster merging from an observational and theoretical perspective and is appropriate for both graduate students and researchers in the field.

Constraining Dark Matter Through the Study of Merging Galaxy Clusters William Anthony Dawson, 2013 The majority 85% of the matter in the universe is composed of dark matter, a mysterious particle that does not interact via the electromagnetic force yet does interact with all other matter via the gravitational force. Many direct detection experiments have been devoted to finding interactions of dark matter with baryonic matter via the weak force. To date only tentative and controversial evidence for such interactions has been found. While such direct detection experiments have ruled out the possibility that dark matter interacts with baryonic matter via a strong scale force, it is still possible that dark matter interacts with itself via a strong scale force and has a self scattering cross section of $0.5 \text{ cm}^2 \text{ g}^{-1}$. In fact such a strong scale scattering force could resolve several outstanding astronomical mysteries: a discrepancy between the cuspy density profiles seen in Lambda CDM simulations and the cored density profiles observed in low surface brightness galaxies, dwarf spheroidal galaxies and galaxy clusters, as well as the discrepancy between the significant number of massive Milky Way dwarf spheroidal halos predicted by Lambda CDM and the dearth of observed Milky Way dwarf spheroidal halos. Need While such observations are in conflict with Lambda CDM and suggest that dark matter may self scatter, each suffers from a baryonic degeneracy where the observations might be explained by various baryonic processes e.g. AGN or supernova feedback, stellar winds etc. rather than self interacting dark matter (SIDM). In fact the important scales of these observations often coincide with baryonic scales e.g. the core size in clusters is few factors smaller than the radius of the brightest cluster galaxy. What is needed is a probe of SIDM where the expected effect cannot be replicated by the same processes responsible for the baryonic degeneracy in the aforementioned probes. Merging galaxy clusters are such a probe. During the merging process the effectively collisionless galaxies 2% of the cluster mass become dissociated from the collisional intracluster gas, 15% of the cluster mass. A significant fraction of the gas self interacts during the merger and slows down at the point of collision. If dark matter lags behind the effectively collisionless galaxies then this is clear evidence that dark matter self interacts. The expected galaxy-dark matter offset is typically 25 kpc for cross sections that would explain the other aforementioned issues with Lambda CDM. This is larger than the scales of those that are plagued by the baryonic degeneracies. Task To test whether dark

matter self interacts we have carried out a comprehensive survey of the dissociative merging galaxy cluster DLSCL J0916 2 2951 also known as the Musket Ball Cluster This survey includes photometric and spectroscopic observations to quantify the position and velocity of the cluster galaxies weak gravitational lensing observations to map and weigh the mass i e dark matter which comprises 85% of the mass of the cluster Sunyaev Zel dovich effect and X ray observations to map and quantify the intracluster gas and finally radio observations to search for associated radio relics which had they been observed would have helped constrain the properties of the merger Using this information in conjunction with a Monte Carlo analysis model I quantify the dynamic properties of the merger necessary to properly interpret constraints on the SIDM cross section I compare the locations of the galaxies dark matter and gas to constrain the SIDM cross section This dissertation presents this work Findings We find that the Musket Ball is a merger with total mass of 4 8 3 2 1 5 x 10¹⁴M sun However the dynamic analysis shows that the Musket Ball is being observed 1 1 1 3 0 4 Gyr after first pass through and is much further progressed in its merger process than previously identified dissociative mergers for example it is 3 4 3 8 1 4 times further progressed than the Bullet Cluster By observing that the dark matter is significantly offset from the gas we are able to place an upper limit on the dark matter cross section of sigma SIDM m 1 DM

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Xania Scheick,1993 *The Origin, Evolution and Classification of Field and Cluster Galaxy Populations* Christopher J.

Conselice,2001 **Communications of the Special Astrophysical Observatory** ,1989 **Monthly Notices of the Royal Astronomical Society** ,2012 Portfolio of 8 charts accompanies v 83

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Thermal and Relativistic Plasma in Galaxy Clusters Hans Böhringer,Luigina Feretti,Peter Schuecker,1999 **XVth IAP**

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Unveiling the Magic of Words: A Report on "**Merging Processes In Galaxy Clusters**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Merging Processes In Galaxy Clusters**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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