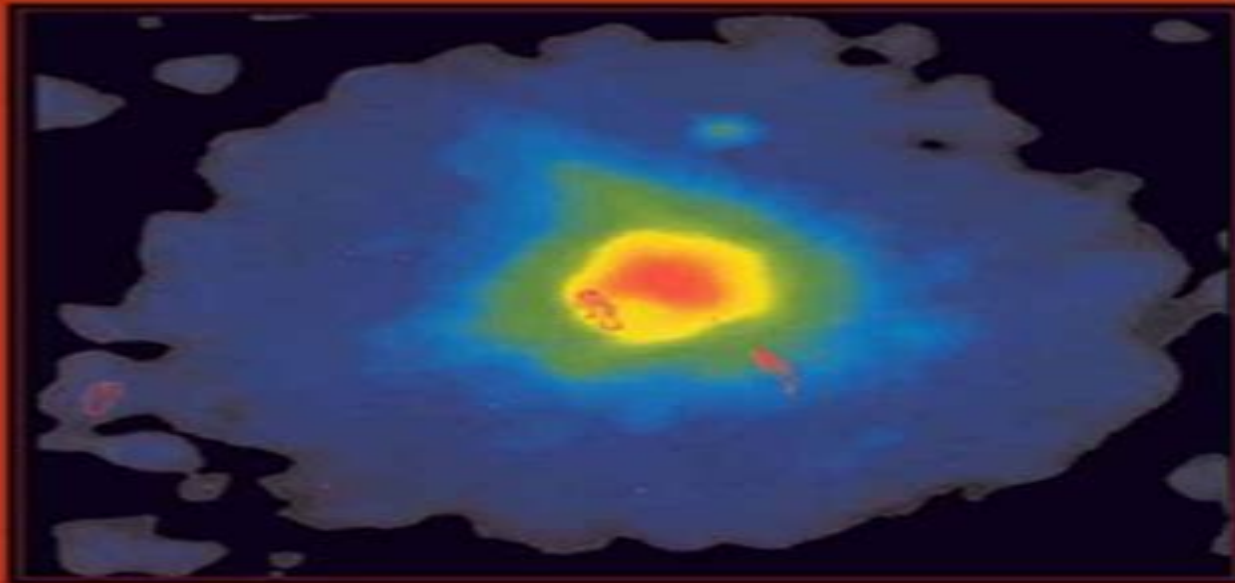


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# MERGING PROCESSES IN GALAXY CLUSTERS

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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 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 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  $4.8 \times 10^{14} M_{\odot}$  However the dynamic analysis shows that the Musket Ball is being observed 1.13 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 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  $\sigma_{SIDM} < 1 \text{ cm}^2/\text{g}$

**Radio Continuum Processes in Clusters of Galaxies** Christopher P. O'Dea, Juan M. Uson, 1986 *Galaxy Mergers* Nicolaas Roos, 1981 **Clusters of Galaxies** Jelle Sijpma, 2005 Covered Physics in the core of clusters Physics of merger events The dark matter content and distribution The role of non gravitational processes and the ICM enrichment Observation of high z clusters and the evolution of cluster properties The warm intergalactic medium and Non thermal emission **Study of Diffuse Light in CD Galaxy Clusters** 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 **Proceedings of the Workshop Diffuse Thermal and Relativistic Plasma in Galaxy Clusters** Hans Böhringer, Luigina Feretti, Peter Schuecker, 1999 XVth IAP Meeting Dynamics of Galaxies F. Combes, Gary Allan Mamon, Vassilis Charmandaris, 2000 The nonprofit Astronomical Society of the Pacific ASP publishes the Conference Series Proceedings as part of its century old mission to provide resources for astronomers and advance the science of astronomy Since 1988 the ASP has published the proceedings of astronomical workshops meetings colloquia and symposia to meet the community s demand for affordable high quality volumes on current topics in the rapidly expanding fields of astronomy and astrophysics Since 1998 the Society has also served as publisher for the International Astronomical Union IAU adding their Symposia Highlights and Transactions to our growing list of publications For most rapid delivery of each volume we encourage libraries and astronomy departments to place a Standing Order for the ASP Conference Series and or the IAU Publications Standing Orders are shipped directly from the printer and customers receive volumes at the same discounted rates as ASP members approximately 25-35 ASP volumes each year and or

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## Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Merging Processes In Galaxy Clusters**

In some sort of inundated with displays and the cacophony of immediate connection, the profound energy and psychological resonance of verbal art usually fade in to obscurity, eclipsed by the constant barrage of noise and distractions. However, set within the lyrical pages of **Merging Processes In Galaxy Clusters**, a fascinating function of literary brilliance that pulses with raw thoughts, lies an remarkable trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that enchanting opus books readers on an emotional odyssey, lightly exposing the latent potential and profound impact stuck within the intricate web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is central subjects, dissect their captivating writing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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