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Mathematics, statistics and Computational science

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My main field of research is Cosmology. I am working on large scale structures like Galaxies and galaxy clusters and their evolutions. I observe and study them at different wavelength to study their behaviour and understand their mechanisms of formation and evolution.

CURRENT RESEARCH

Topic	Methodology	Application
-Galaxy	• Determination of history formation and evolution of galaxies.	- Use of multi-wavelength data
-Galaxy clusters	• Study of the mechanisms inherent to clusters	- Ground based data
-Multi-wavelength	• Study of Dark Energy	- Space data
		- Spectroscopy

UKZN main Publications

Past Researches

1. -The DAFT/FADA survey. I.Photometric redshifts along lines of sight to clusters in the $z=[0.4,0.9]$ interval, Guennou et al., 2010A&A...523A..21G
2. -Intracluster light in clusters of galaxies at redshifts $0.4 < z < 0.8$, Guennou et al, 2012, A&A...537A..64G
3. -Comparison of the properties of two fossil groups of galaxies with the normal group NGC 6034 based on multiband imaging and optical spectroscopy, Adami, Jouvel, Guennou et al, 2012 A&A...540A.105A)

Future Interests

1. -Determination of stellar mass inside the clusters
2. -Combination of X-ray/ Radio Data
3. -Work on Planck data

Extra Interests

Archery, piano, novels