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Authors	MORETTI, ALESSIA, GULLIEUSZIK, MARCO, POGGIANTI, Bianca Maria, Paccagnella, Angela, Couch, Warrick J., Vulcani, Benedetta, BETTONI, Daniela, Fritz, Jacopo, Cava, Antonio, Fasaano, Giovanni, D'ONOFRIO, MAURO, Omizzolo, Alessandro
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J/A+A/599/A81 OmegaWINGS local clusters of galaxies redshifts (Moretti+, 2017)

OmegaWINGS: spectroscopy in the outskirts of local clusters of galaxies.
 Moretti A., Gullieuszik M., Poggianti B., Paccagnella A., Couch W.J.,
 Vulcani B., Bettoni D., Fritz J., Cava A., Fasaano G., D'Onofrio M.,
 Omizzolo A.
 <Astron. Astrophys. 599, A81 (2017)>
 =[2017A&A...599A..81M](#) (SIMBAD/NED BibCode)

ADC_Keywords: Clusters, galaxy ; Redshifts

Keywords: galaxies: clusters: general - galaxies: distances and redshifts

Abstract:

We present the spectroscopic follow-up of the OmegaWINGS photometric survey, aimed at covering the outskirts of a subset of the original WINGS cluster sample. We observed 33 of the 46 clusters of galaxies observed with VST over 1 square degree. The aim of this spectroscopic survey is to enlarge the number of cluster members and study the galaxy characteristics and the cluster dynamical properties out to large radii, reaching the virial radius and beyond. We used the AAOmega spectrograph at AAT to obtain fiber-integrated spectra covering the wavelength region between 3800 and 9000Å with a spectral resolution of 3.5-6Å full width at half maximum (FWHM). We present here the redshift measurements for 17985 galaxies, 7497 of which turned out to be cluster members.

Description:

Redshifts, magnitude/radial completeness, and memberships are given for the 17985 galaxies observed as part of the OmegaWINGS survey of local clusters of galaxies over 1 square degree. Redshifts have been measured using both absorption and emission lines features. The sample magnitude completeness is 80% at V=20. Thanks to the observing strategy, the radial completeness turned out to be relatively constant (90%) within the AAOmega field of view. The success rate in measuring redshifts is 95%, at all radii. Cluster members are flagged 1 or 2, depending on the cluster structure/secondary structure, and 0 if they are not cluster members.

File Summary:

FileName	Lrecl	Records	Explanations
ReadMe	80	.	This file
table4.dat	86	17985	Redshifts for 17985 galaxies

See also:

[J/A+A/581/A41](#) : OmegaWINGS BV photometry of galaxy clusters (Gullieuszik+ 2015)

Byte-by-byte Description of file: [table4.dat](#)

Bytes	Format	Units	Label	Explanations
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1-	7	A7	---	Cluster	Cluster name
9-	13	A5	---	---	[WINGS]
14-	32	A19	---	WINGS	WINGS designation (JHHMMSS.ss+DDMMSS.s)
34-	44	F11.7	deg	RAdeg	Right ascension (J2000.0)
46-	56	F11.7	deg	DEdeg	Declination (J2000.0)
58-	64	F7.5	---	z	Redshift
66-	72	F7.5	---	e_z	?=- Error on redshift
74-	78	F5.3	---	Cm	?=- Magnitude completeness
80-	84	F5.3	---	Cr	?=- Radial completeness
	86	I1	---	Memb	[0/2] Membership (1)

Note (1): Membership flag as follows:

- 1 = cluster member (depending on the cluster structure)
- 2 = cluster member (depending on the secondary structure)
- 0 = not cluster member

Acknowledgements:

Alessia Moretti, [alessia.moretti\(at\)oapd.inaf.it](mailto:alessia.moretti(at)oapd.inaf.it)

(End) Alessia Moretti [INAF/Padova, Italy], Patricia Vannier [CDS] 07-Feb-2017

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