TABLE A2

DUNN'S POST TESTS FOR MORPHOLOGY VS. BULGE MASS, TOTAL MASS, METALLICITY AND GRAVITATIONAL BINDING ENERGY

	$M_{\rm Bulge}$					[O/H]					U/N				
	S0/S0a	Sa	Sab	Sb	Sc	S0/S0a	Sa	Sab	Sb		S0/S0a	Sa	Sab	Sb	Sc
Sa	ns					ns					ns				
Sab	ns	ns				ns	**				ns	***			
Sb	**	***	ns			**	***	ns			ns	***	ns		
Sc	***	***	***	**		***	***	***	ns		***	***	**	ns	
Sd	***	***	***	***	ns						***	***	***	***	ns
	M_B					M_K									
	S0/S0a	Sa	Sab	Sb	Sc	S0/S0a	Sa	Sab	Sb	Sc					
Sa	ns					ns									
Sab	ns	ns				ns	ns								
Sb	ns	ns	ns			ns	**	ns							
Sc	**	**	ns	***		ns	***	ns	ns						
Sd	***	***	***	***	**	***	***	***	***	**					

In Table A1 we find a strong relation between the gravitational binding energy and the AGN activity. This applies for galaxies having more massive bulges, Table A2. Since we find no such relation for the masses, these results are consistent with a strong dependence of the AGN phenomenon with the gravitational binding energy: the larger the gravitational binding energy, the larger the bulge mass and the higher the probability to find an AGN.

All these results favor an explanation in terms of astration rates: high astration rates produce massive bulges which increases the probability of finding an AGN.

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