

Massive stars: preparing for Gaia

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Massive stars spectroscopic surveys

Survey	PI	#	# O	Resol.	Sample	Spectral types	Epochs	Done
GOSSS	Maíz Apellániz	3000	1500	2500	Galactic N+S	O (+ B + WR)	1-6	45%
OWN	Barbá + Morrell	300	250	15 000 - 46 000	Galactic S	O + WN	10	70%
IACOB	Simón-Díaz	300	150	23 000 - 46 000	Galactic N	O + B	1-5	80%
NoMaDS	Pellerin	200	150	30 000	Galactic N	O (+ B + WR)	1-5	20%
VFTS	Evans	1000	250	7000	30 Doradus	O + B + SG	9	100%
RIOTS4	Oey + Lamb	374	~130	2600	SMC	O + B + WR	1-12	90%
Gaia-ESO	Gilmore + Randich	100 000	~100	20 000	Galactic clusters and field	All	1	0%

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5. The massive-star IMF

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- What will Gaia have problems with?
 - ★ Identification by spectrophotometry
 - ★ Identification by z-band spectroscopy

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- New CCD for Albireo at the OSN 1.5 m
 - ★ No fringing, installed two months ago, replicates RVS
 - ★ OSN: Very low water vapor content, access to He II 8237
 - ★ Libraries and follow-up