

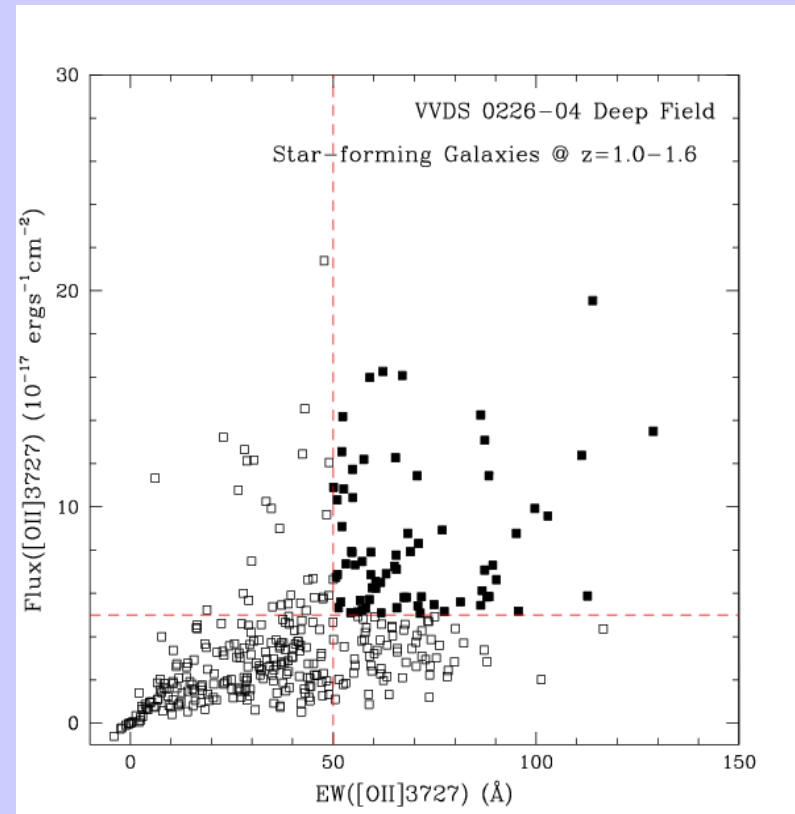
***Masses and Kinematics of Late-type
VVDS Galaxies in the Redshift
Range $1.4 < z < 3.5$***

Preliminary Results from SINFONI/VLT
run 75.A-0318, **4 nights**: Sept.5-9,2005
P.I: Lemoine-Busserolle

Target selection

F02/F22 galaxies with **secure redshift** to avoid strong OH sky lines

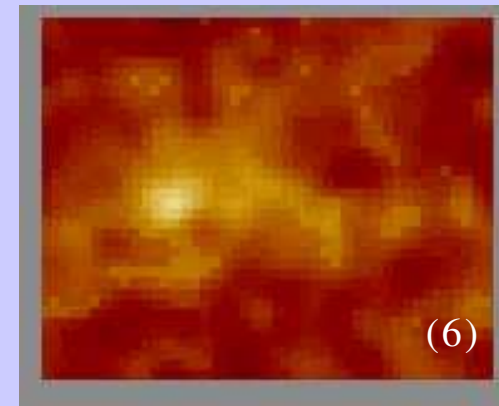
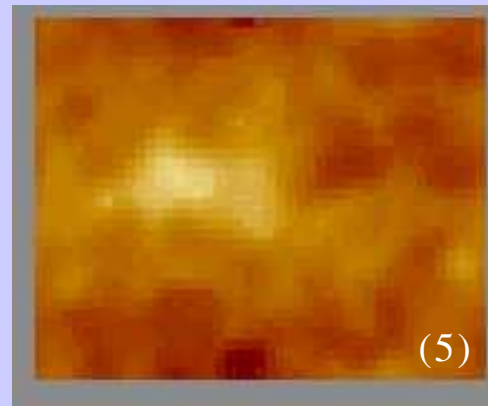
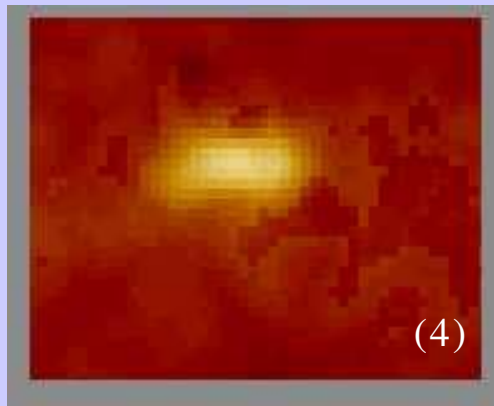
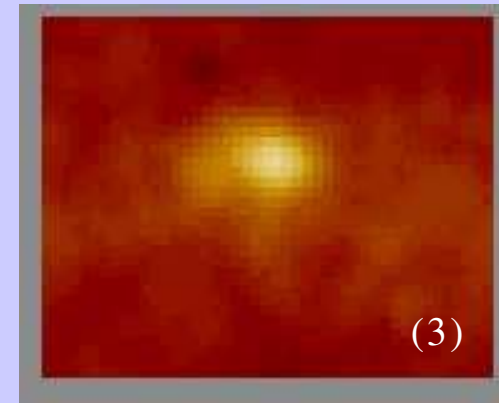
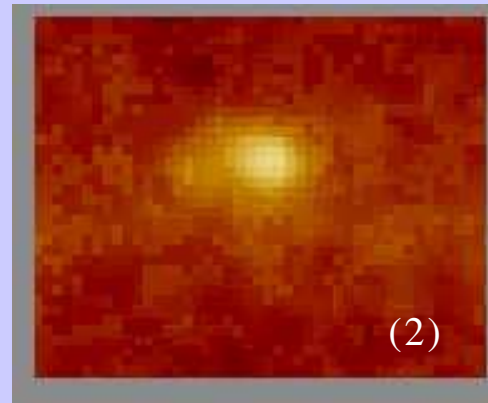
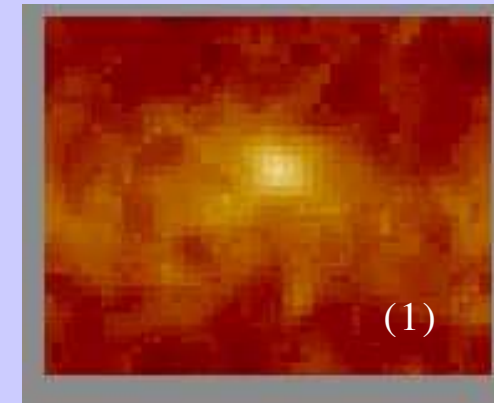
Late-type: strong [OII]3727 (EL $z < 1.6$) and/or blue colors ($z > 1.6$)



Sample from **VDS0226-04** (IAB < 24) and **VVDS2217+00** (IAB < 22.5)

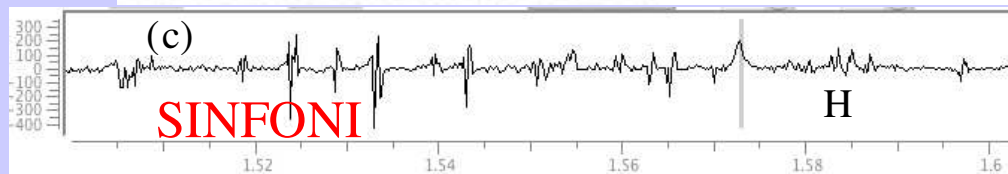
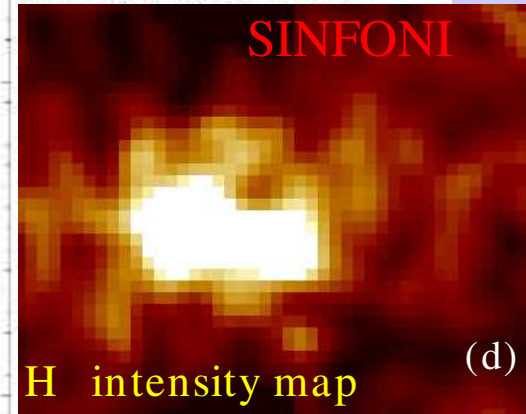
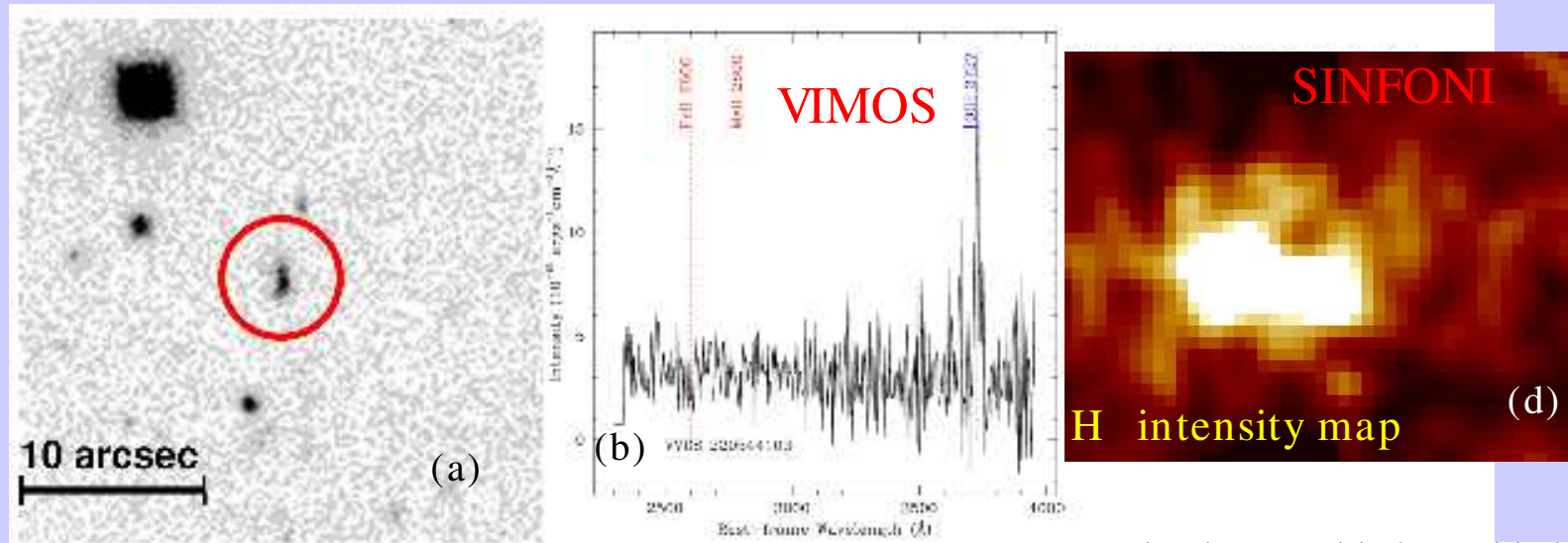
1.3970	1h (H); 1h (J)	H α (H); [OIII]4959/5007 (J)
1.4637	1h45 (H); 1h (J)	H α (H); H β & [OIII]4959/5007(J)
1.3097	2h	H α & [NII]6584 (H)
1.3091	2h	H α & [NII]6584 (H)
1.2667	1h45	H α (H)
1.5259	1h40	H α (H)
1.5174	2h	H α (H)
1.5291	1h	H α (H)
3.2780	5h30	H β & [OIII]4959/5007 (K)
3.2911	5H20	H β & [OIII]5007 (K)

VVDS 220544103 ($z=1.3970$)

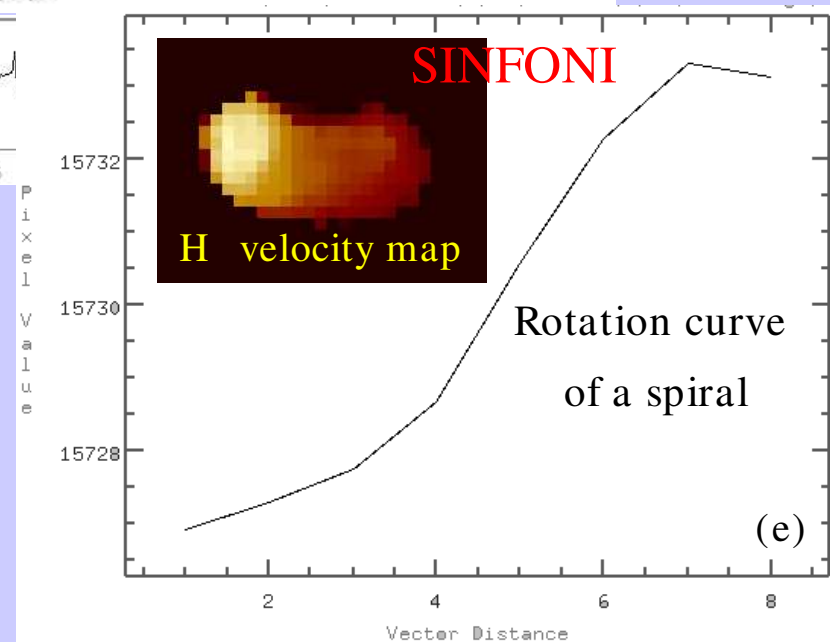


H α 3D Kinematics

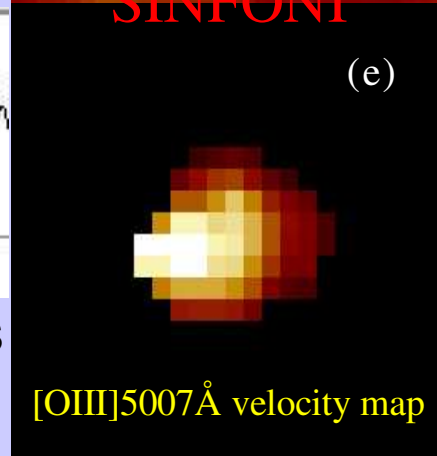
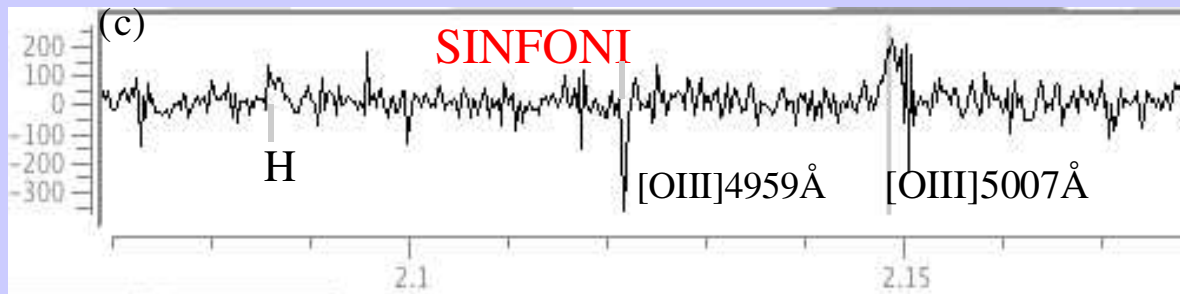
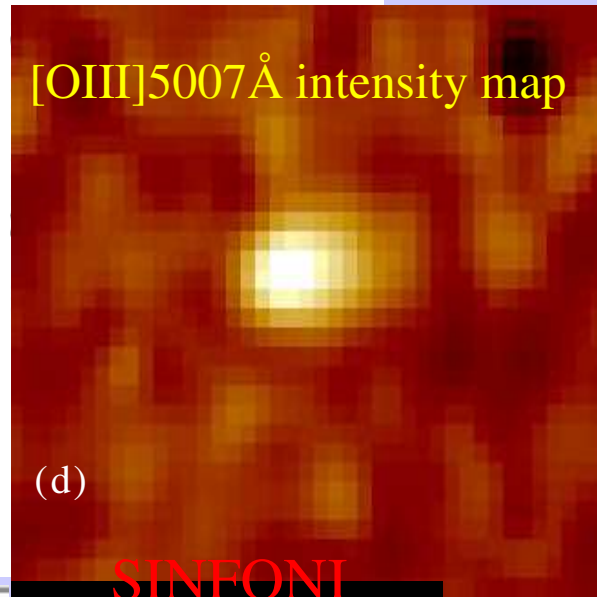
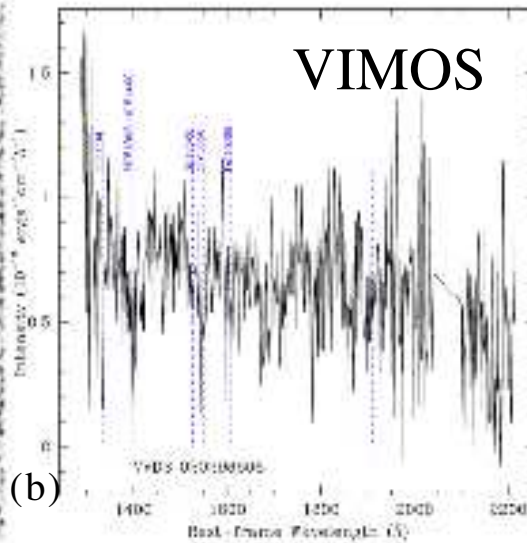
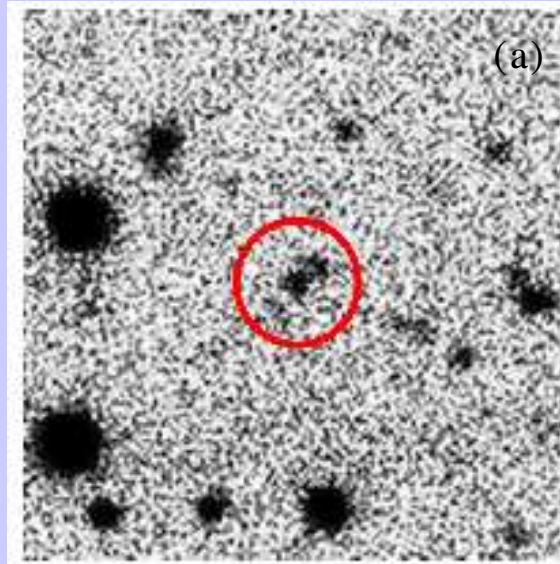
VVDS 220544103 ($z=1.3970$)



NIR integral field spectroscopy study of the galaxy VVDS 220544103. (a): CFHT I-band image. (b): VIMOS low-resolution spectrum ($R \sim 250$). (c): Sinfoni H-band 1D spectrum showing the high S/N H α emission line. H α intensity map (d) and rotation curve ($V_{\text{rot}} \sim 115$ km/s) deduced from the H α velocity map (e).



VVDS 020298666 ($z=3.2911$)



NIR integral field spectroscopy study of the galaxy VVDS 220544103. (a): CFHT I-band image. (b): VIMOS low-resolution spectrum ($R\sim 250$). (c): Sinfoni K-band 1D spectrum : $H\beta$ and $[OIII]5007 \text{ \AA}$ was detected; unfortunately $[OIII]4959 \text{ \AA}$ falls on a OH sky line. Preliminary $[OIII]5007 \text{ \AA}$ intensity map (d) and velocity map deduced from the $[OIII]5007 \text{ \AA}$ emission line (e).

- Reduction and Analysis under progress.

- New recently submitted proposal :

077.A-0411