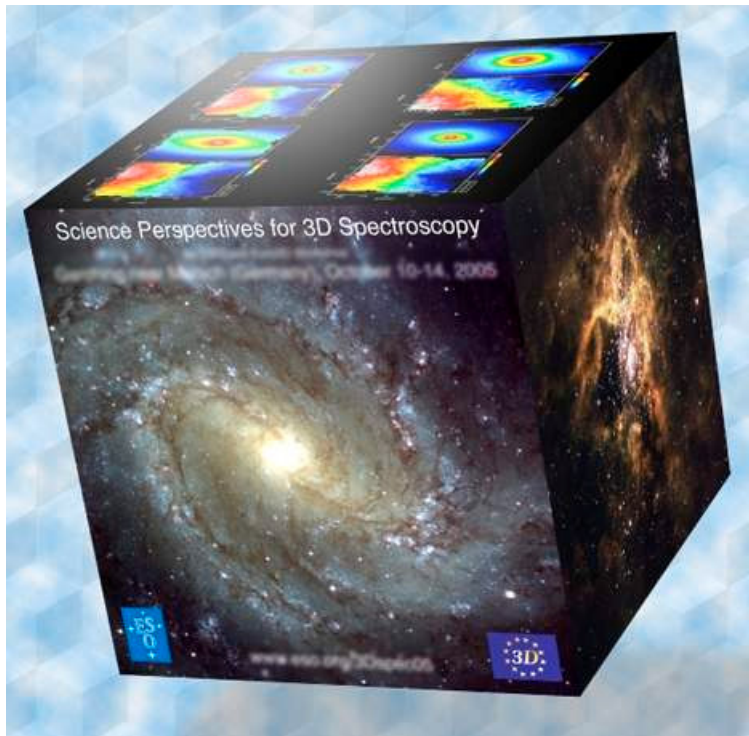




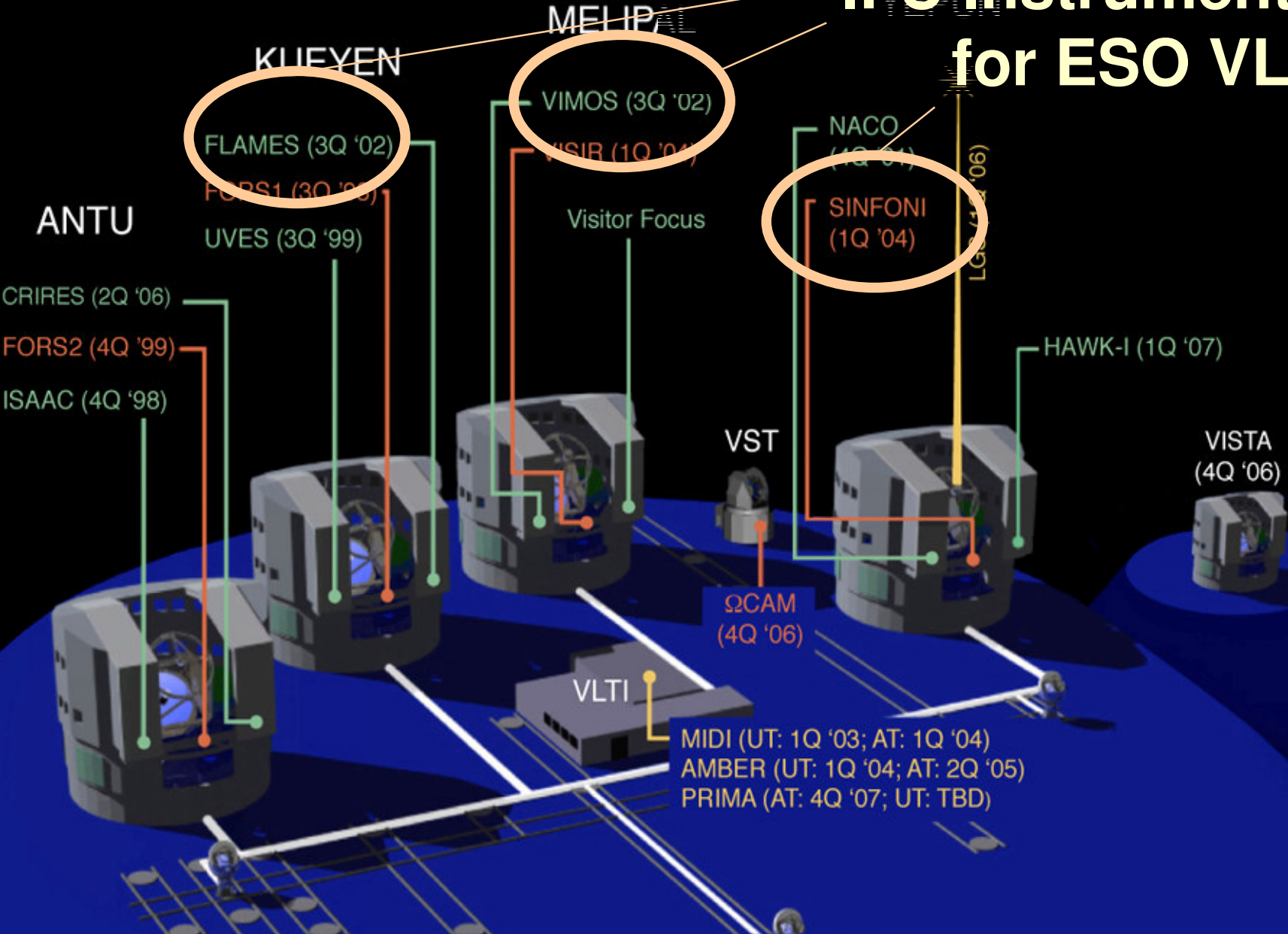
# VLT IFU Use Case



**Markus Dolensky**  
**ESO**

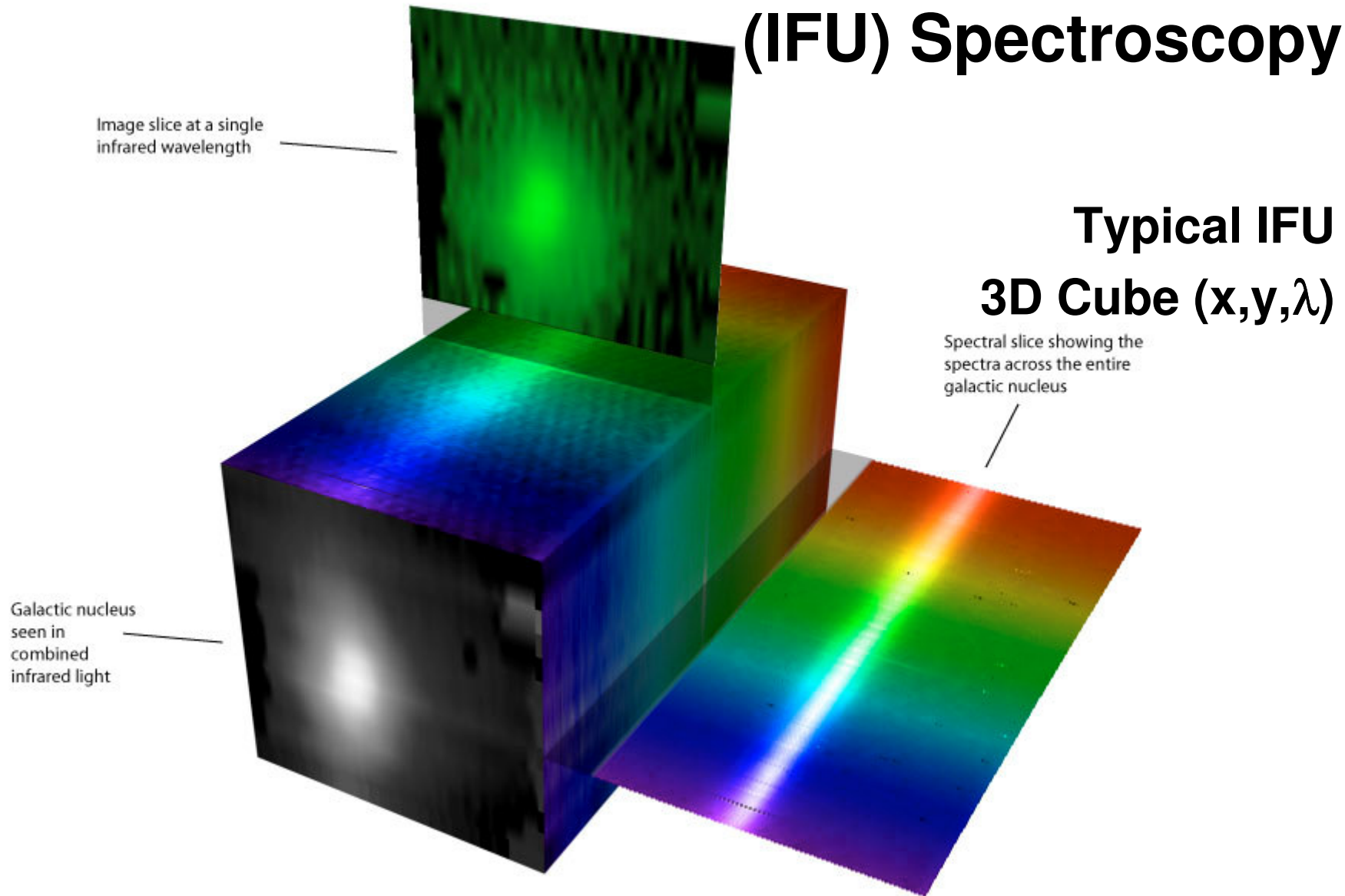
**Informal Discussion**  
**Bonnarel, Durand,**  
**Kissler-Patig, Tody**

# IFU Instruments for ESO VLT



VLT INSTRUMENTATION (1<sup>st</sup> light dates)

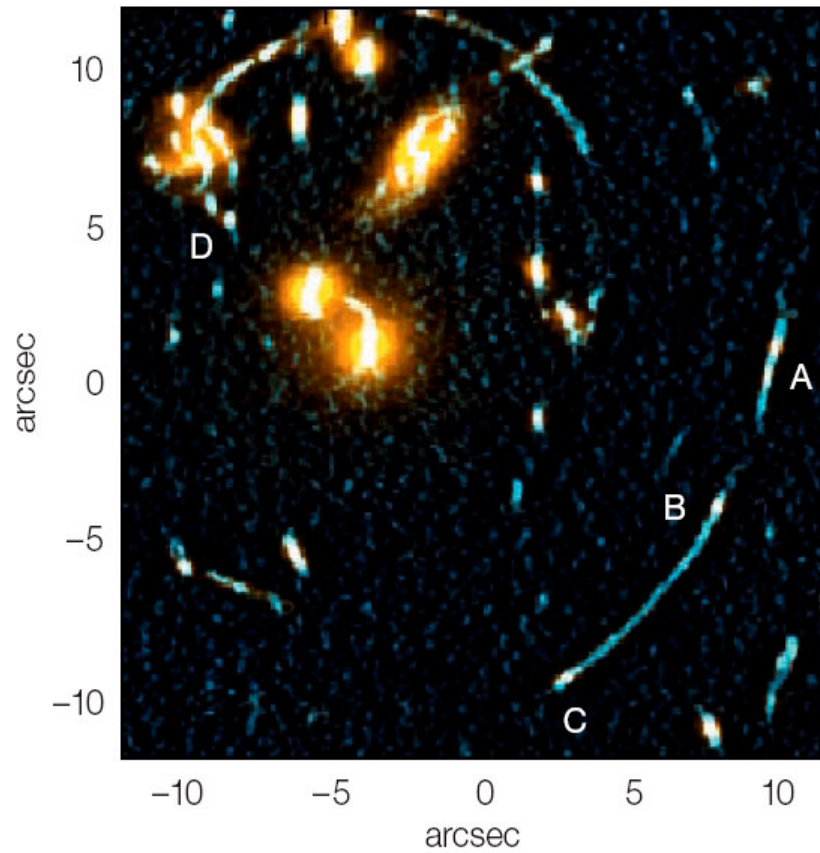
# Integral Field Unit (IFU) Spectroscopy



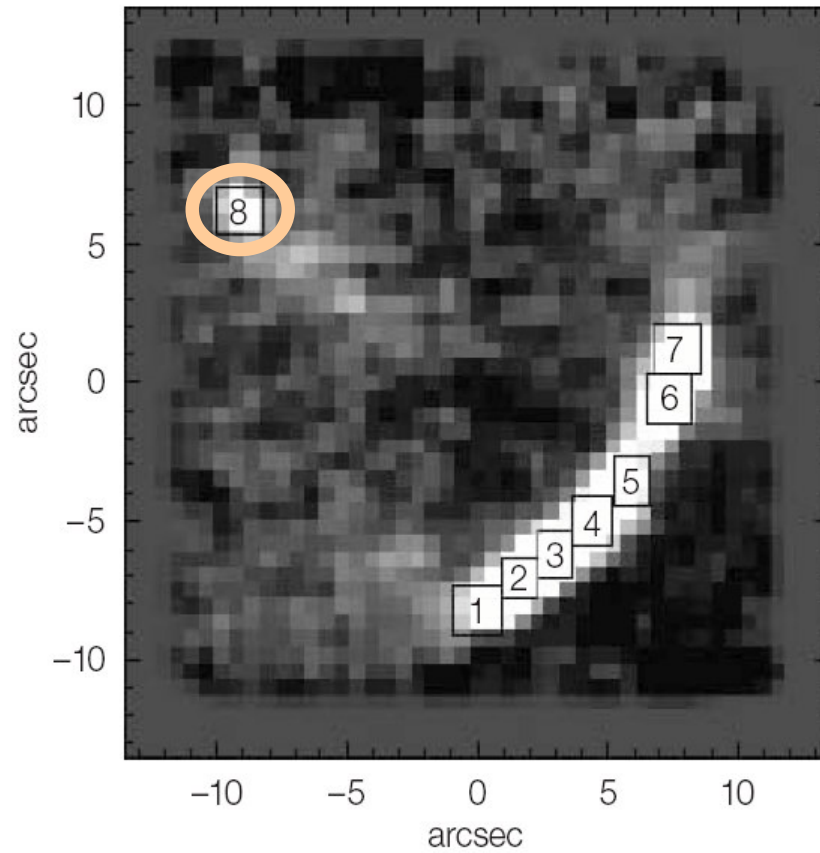
# Some Use Cases

- **map emission lines**
- **map absorption lines**
- **resolve velocity fields**
- **detect mirror image in grav. lense**
- **...**

# Science Case: Detect Ghost Image



Swinbank et al., 2005



# Functionality

**a) Select cutout along  $\lambda$ -axis requires range-list syntax:**

e.g.: `BAND=/1E-6,1.5E-6/3.5E-6`

**SIA service to return collapsed 2d image  
for slices  $\lambda \leq 1 \mu\text{m}$  and  $1.5 \geq \lambda \geq 3.5 \mu\text{m}$**

**b) Select spectrum/spectra for given location:**

**SSA service to return extracted 1d spectrum**