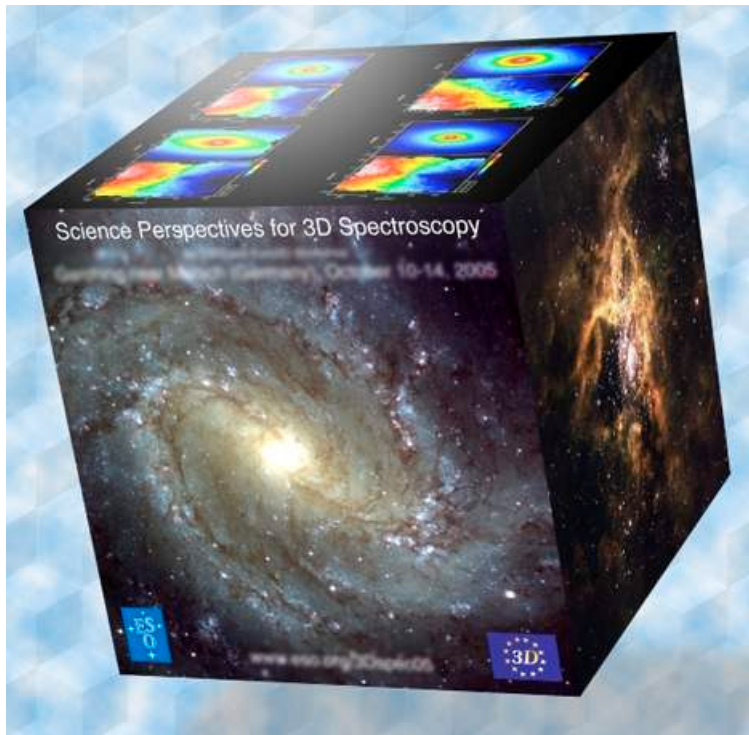


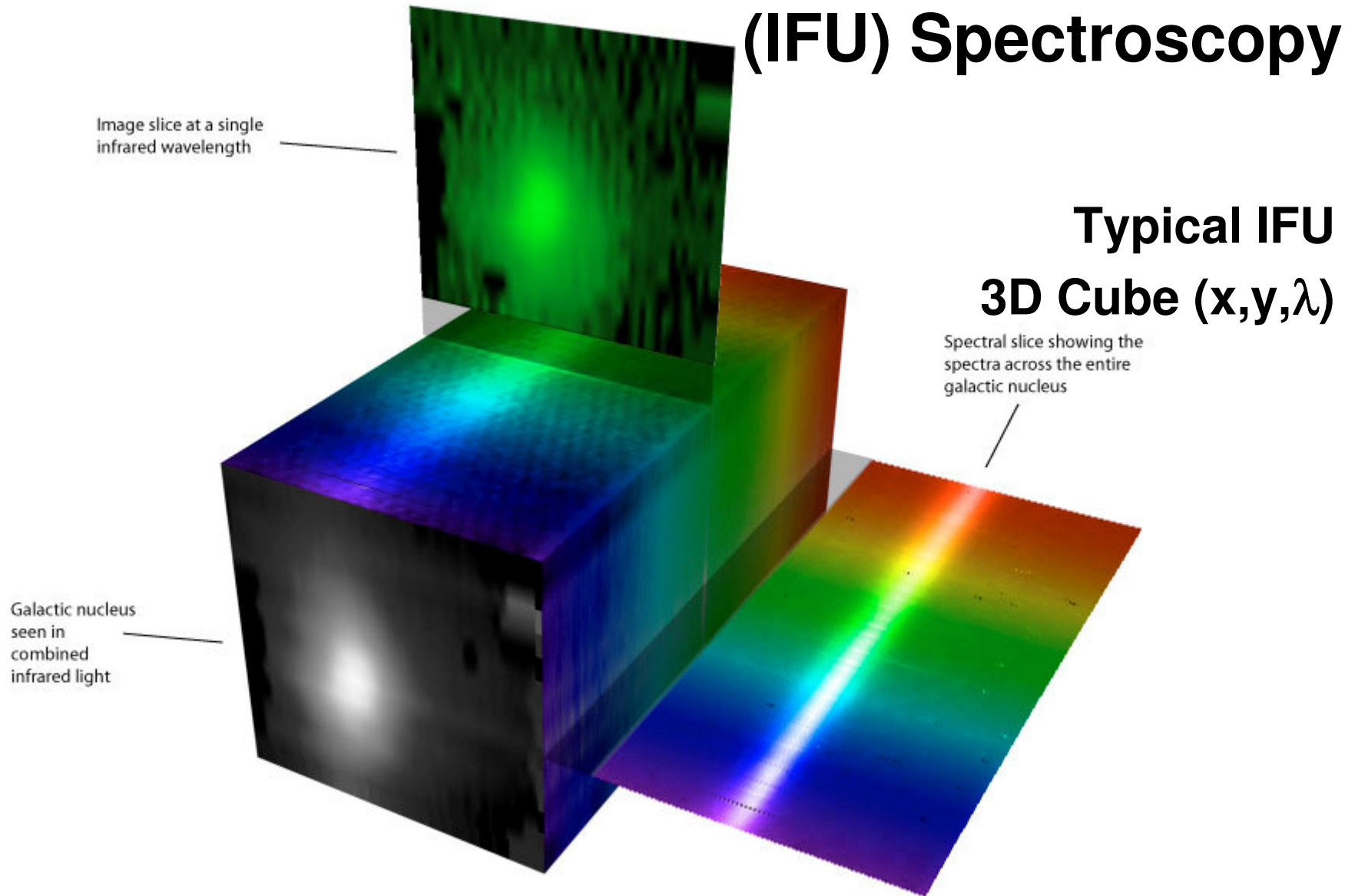


VLT IFU Use Case

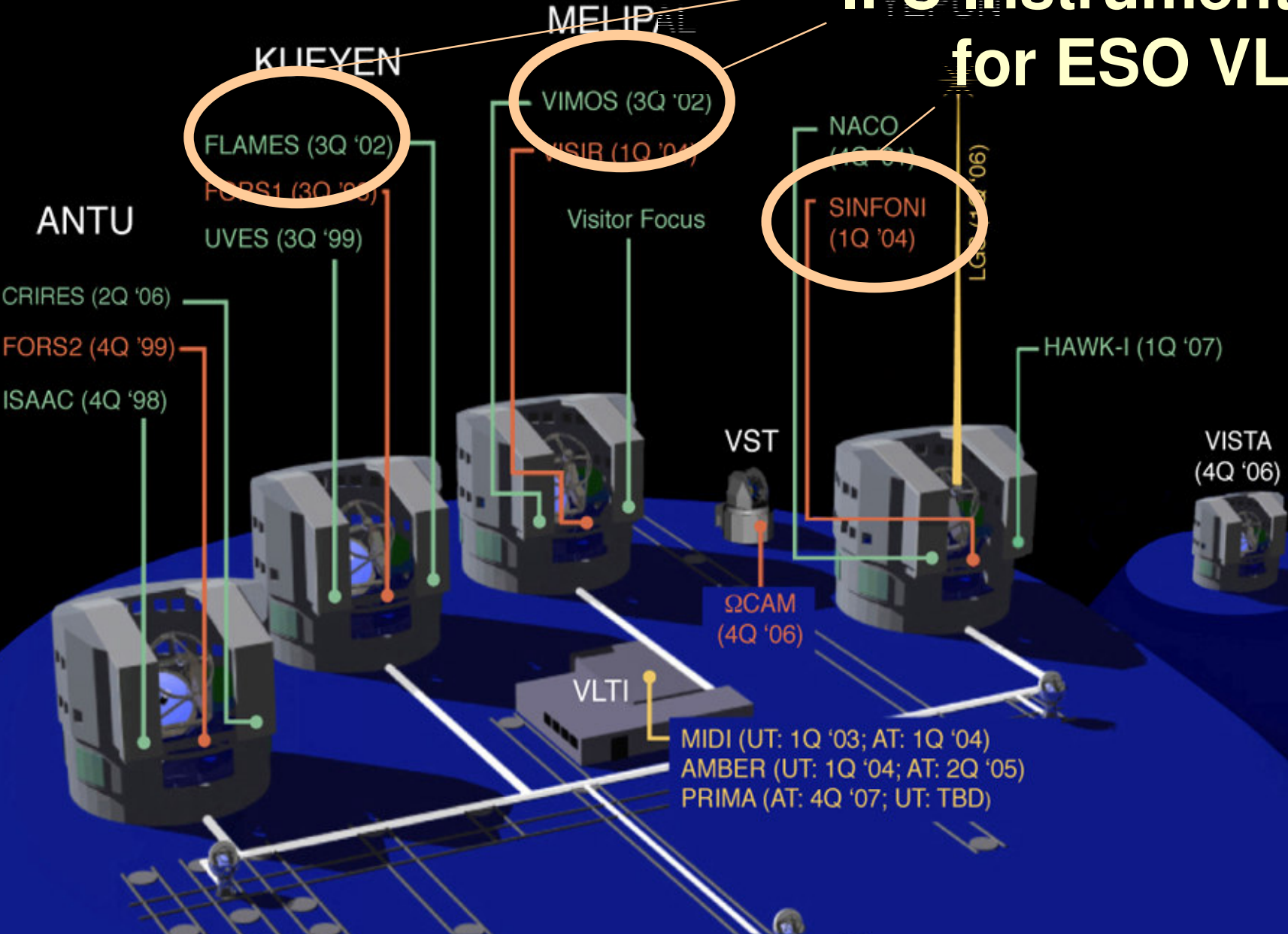


Markus Dolensky
ESO

Integral Field Unit (IFU) Spectroscopy

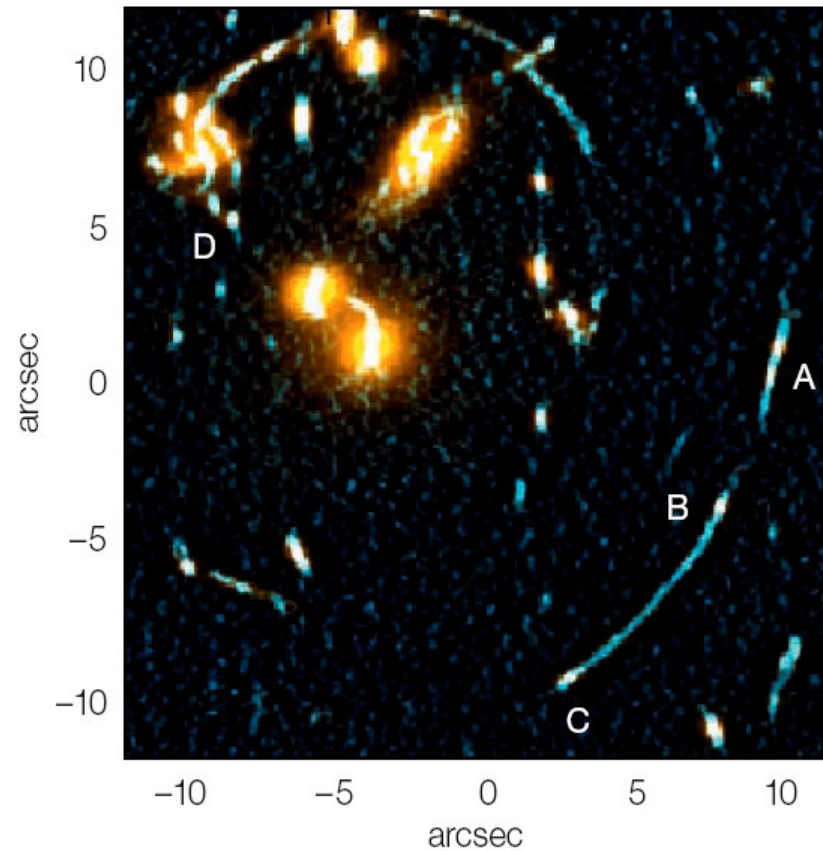


IFU Instruments for ESO VLT

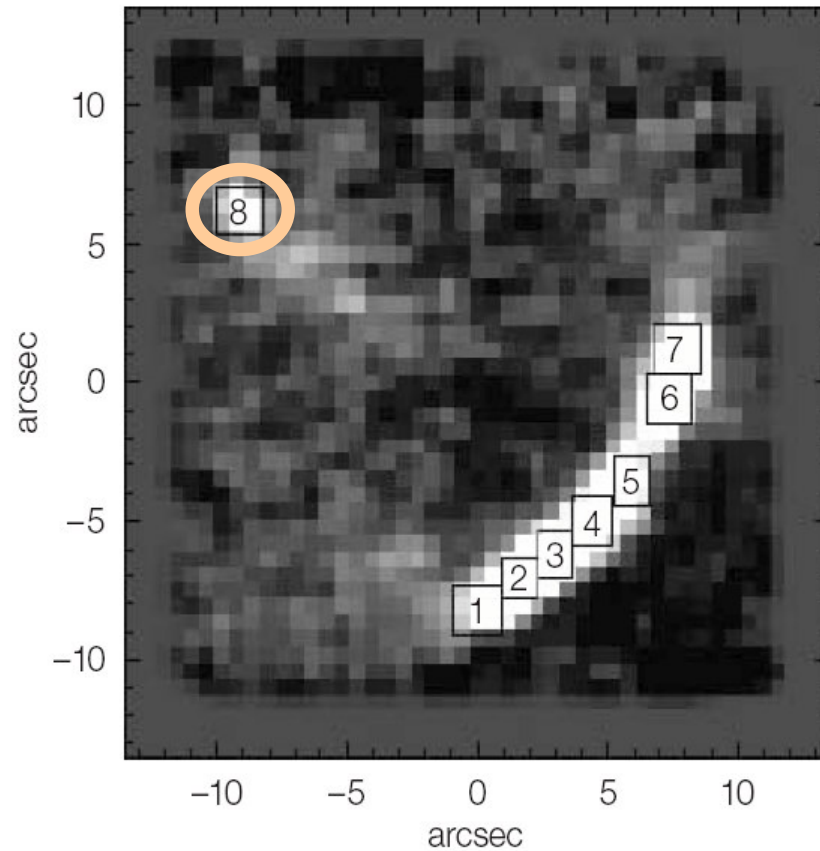


VLT INSTRUMENTATION (1st light dates)

Science Case: Detect Ghost Image



Swinbank et al., 2005



Some Use Cases

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

Functionality

a) Select cutout along λ -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