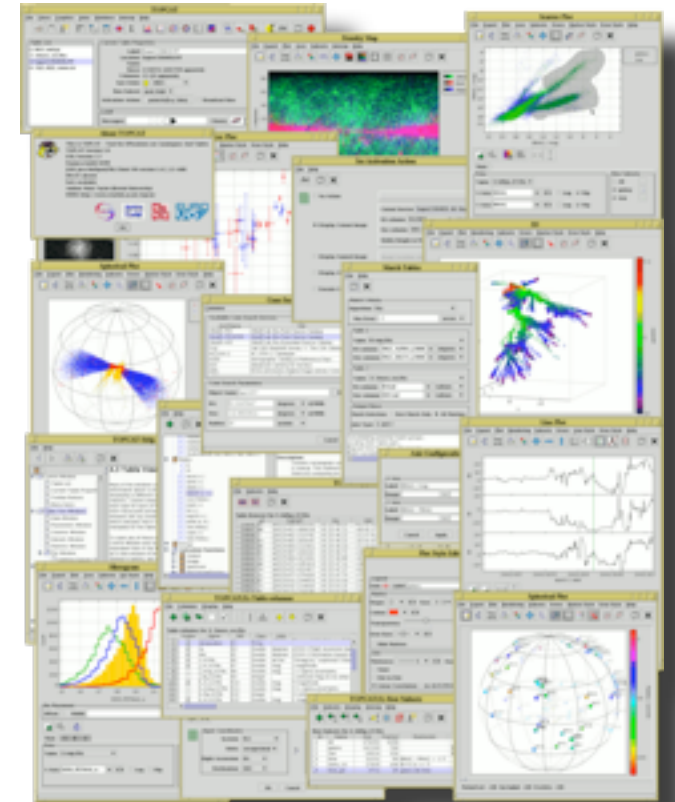
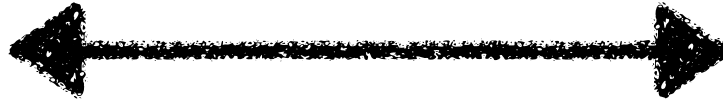


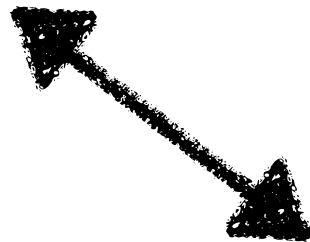
OCTOPUS

by Ivan Zolotukhin

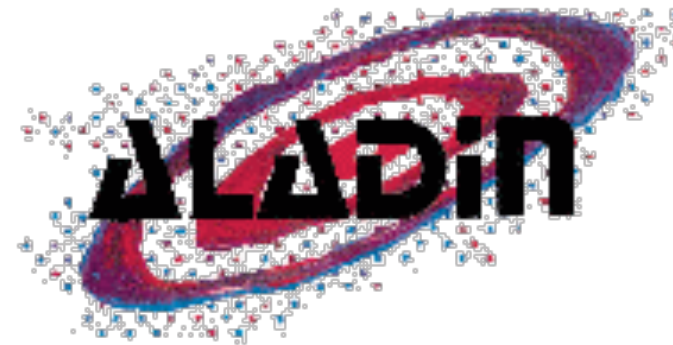
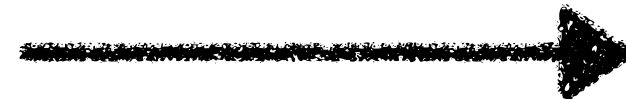
IRAP, Toulouse, France



SAMP



Activation actions

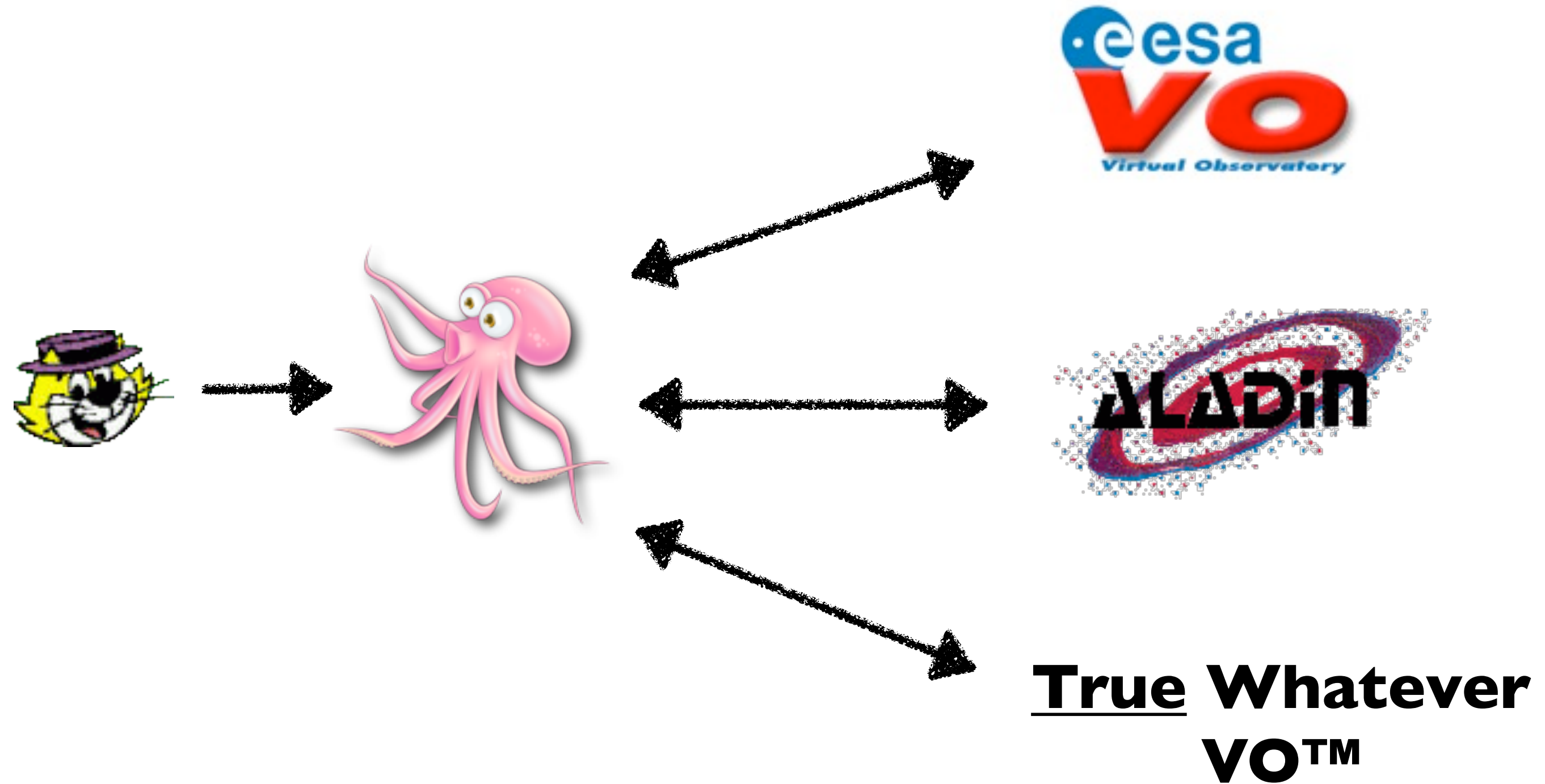


“Whatever” VO™

The idea

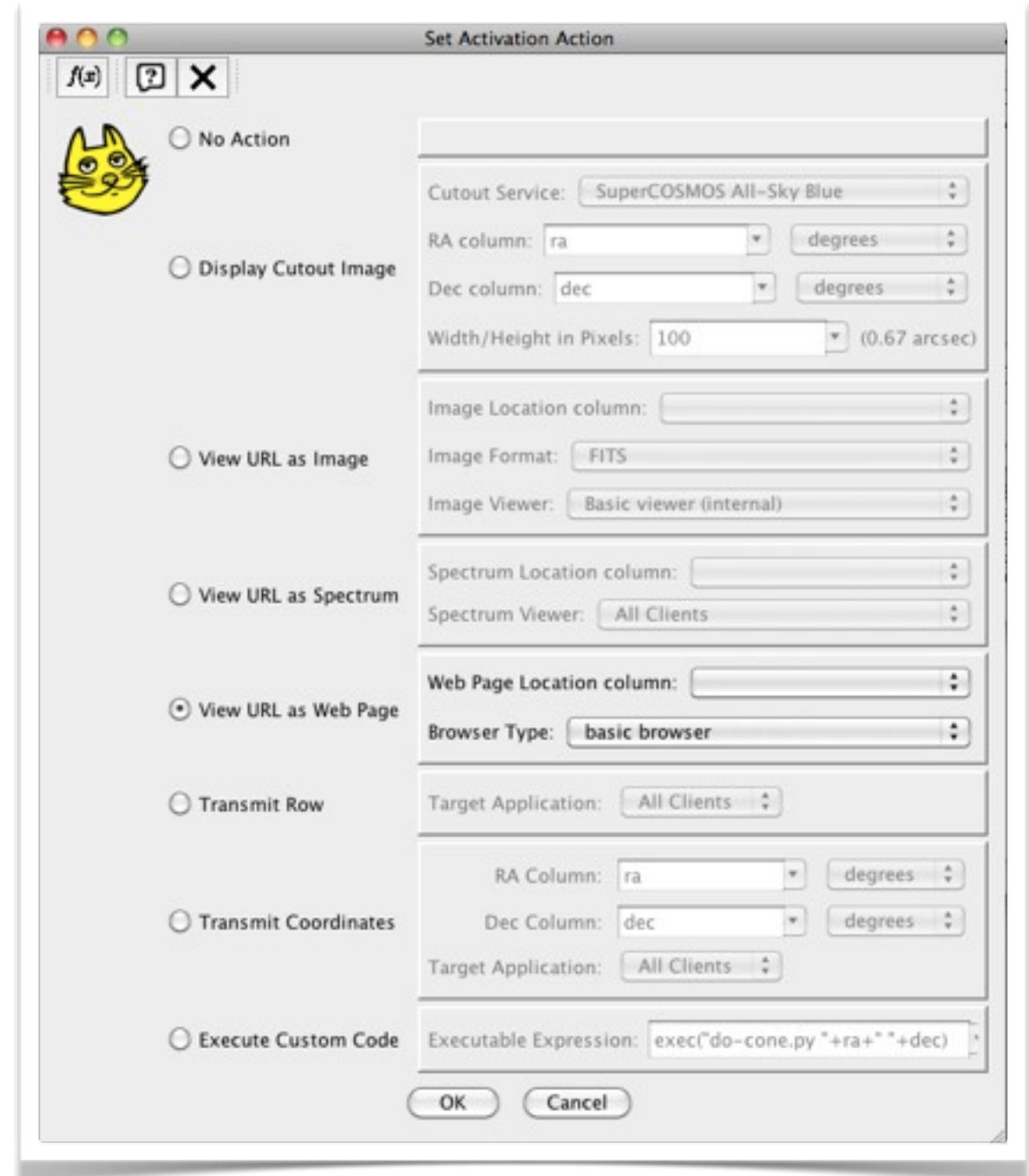
- Concept of activation actions from TOPCAT
- Really cool stuff, but limited functionality
- Crazy & funny workarounds: plot offset diagram, launch chain of TOPCATs
- After 6 month discussion an interesting idea was born

The idea



Octopus

- Based on SAMPy
- Concept of config (**workflow**) for each use-case
- Think checkboxes in TOPCAT's set activation action



Use-cases as of today

- Compact elliptical galaxies
- Clusters of galaxies
- X-ray and optical data on HLX candidates
- TBL Narval archive spectra + Pollux

cE galaxies

1. Point Aladin to an object (SDSS image)
2. Load observed SDSS spectrum in VOSpec
3. Load modeled spectrum in VOSpec

Clusters of galaxies

1. Point Aladin to an object (SDSS image)
2. TAP query to CDS-hosted SDSS DR9
3. Overplot TAP result in Aladin
4. Plot custom diagram (matplotlib)

HLX candidates

1. Point Aladin to an object (SDSS image)
2. Draw X-ray positional uncertainty
3. Print some text in the overlay
4. Make SLAP query to XMM-Newton archive
5. Calculate few scientific metrics
6. Plot X-ray and optical SEDs (matplotlib)

Need collaborators

- Very positive feedback from researchers!
- But app need to be user-friendly

ivan.zolotukhin @ gmail.com