Lasair

In Irish and Scottish Gaelic, Lasair means Flame, Flash

A broker for rapid transients in the era of ZTF and LSST.

Proposed functionality:

- Provide Interactive webpages, plots, select ranges, user added points. Aspects of web, jupyter, sql, api, alerts. Focused on the UK community.
- Annotated alerts with minimum latency.
- Facilitate user defined triggers (e.g. near a defined list of sources, light curve matching)

- Accumulate lightcurves, collect from other surveys.
- Cutouts from other surveys.
- Massive catalogue cross-match.
- Crossmatch to other current, multi-wavelength time-domain surveys.
- Crossmatch to previously known transients.
- Probabilistically classify all transients with machine learning.

- Currently funded, proposal to fund past 4/2019
- Application to be an LSST "community broker"