





- AMPEL (v0.6)
  - Live instance processing ZTF alerts at DESY.
  - Reprocess 2018 alerts in <24h, all work in setup.</li>
  - Automatic container creation and execution the next level (NERSC spin?)
- Introductory / reference paper:
  - http://www.oir.caltech.edu/twiki\_ptf/pub/ZTF/ZtfPapers/ampel\_intro.pdf
    - Includes results on ZTF completeness (matched to TNS)
- Starting repository for usage (public):
  <a href="https://github.com/AmpelProject/Ampel-contrib-sample">https://github.com/AmpelProject/Ampel-contrib-sample</a>
- AMPEL is also a public broker.







Have developed a fast, clean stream of public candidates to the TNS (HU+Weizmann)

- The ZTF\_AMPEL\_MSIP bot (sender)
  - ZTF\_Bot1 are manual selection by the RCF group (for classified objects).
- Target objects are new, extragalactic transients suitable for follow-up (m<19.5)</li>
- Partnership controlled high quality candidates to the community
  - Much of the community does not need a broker.
- Does a good job for new SNe: have not yet found an early SN that we did not report.
- Contamination (stars) < ~5%</li>

#### **Future directions:**

- Submit more candidates (older, fainter, TDE, AGN...)? More complete but could flood TNS and submits more poor candidates
- Should we submit also bright partnership SNe?







#### AMPEL session on Friday. What to do?

- Review of AMPEL
- Hands on with creating channels
- Wishlist for T2/T3 units
- Head to the beach...









AMPEL session on Friday. What to do?

- Review of AMPEL
- Hands on with creating channels
- Wishlist for T2/T3 units
- Head to the beach…

Exciting phase - most of the heavy (core development) lifting completed!

